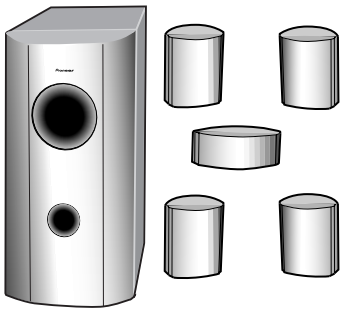
Service Manual



ORDER NO.
RRV2473

SPEAKER SYSTEM

S-DV77
S-DV77SW
S-DV77ST

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	S-DV77		
MYXJI	○	AC220-230V	
NVXJI	○	AC230V	

● **This product is component of system.**

Component	System	Service Manual	Remarks
SPEAKER SYSTEM	S-DV77	————	
POWERED SUBWOOFER	S-DV77SW	RRV2473	
SATELLITE SPEAKER	S-DV77ST	RRV2473	

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T – ZZR JUNE 2001 Printed in Japan

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

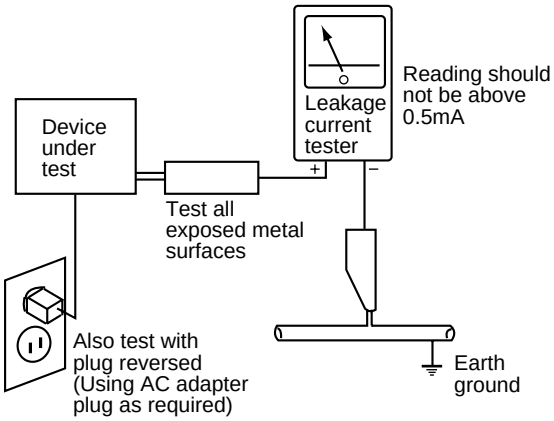
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Device under test
Leakage current tester
+
–
Reading should not be above 0.5mA
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

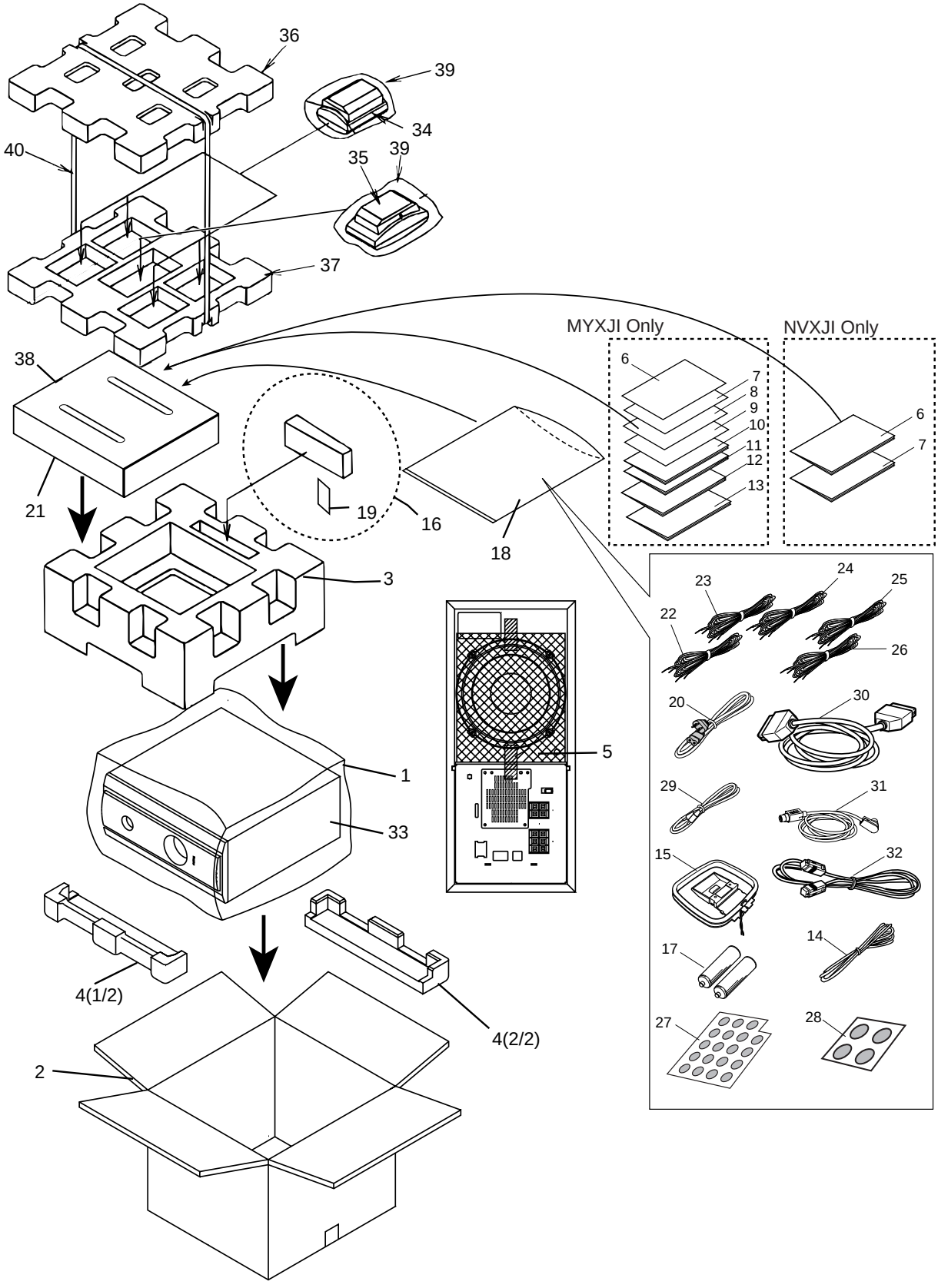
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

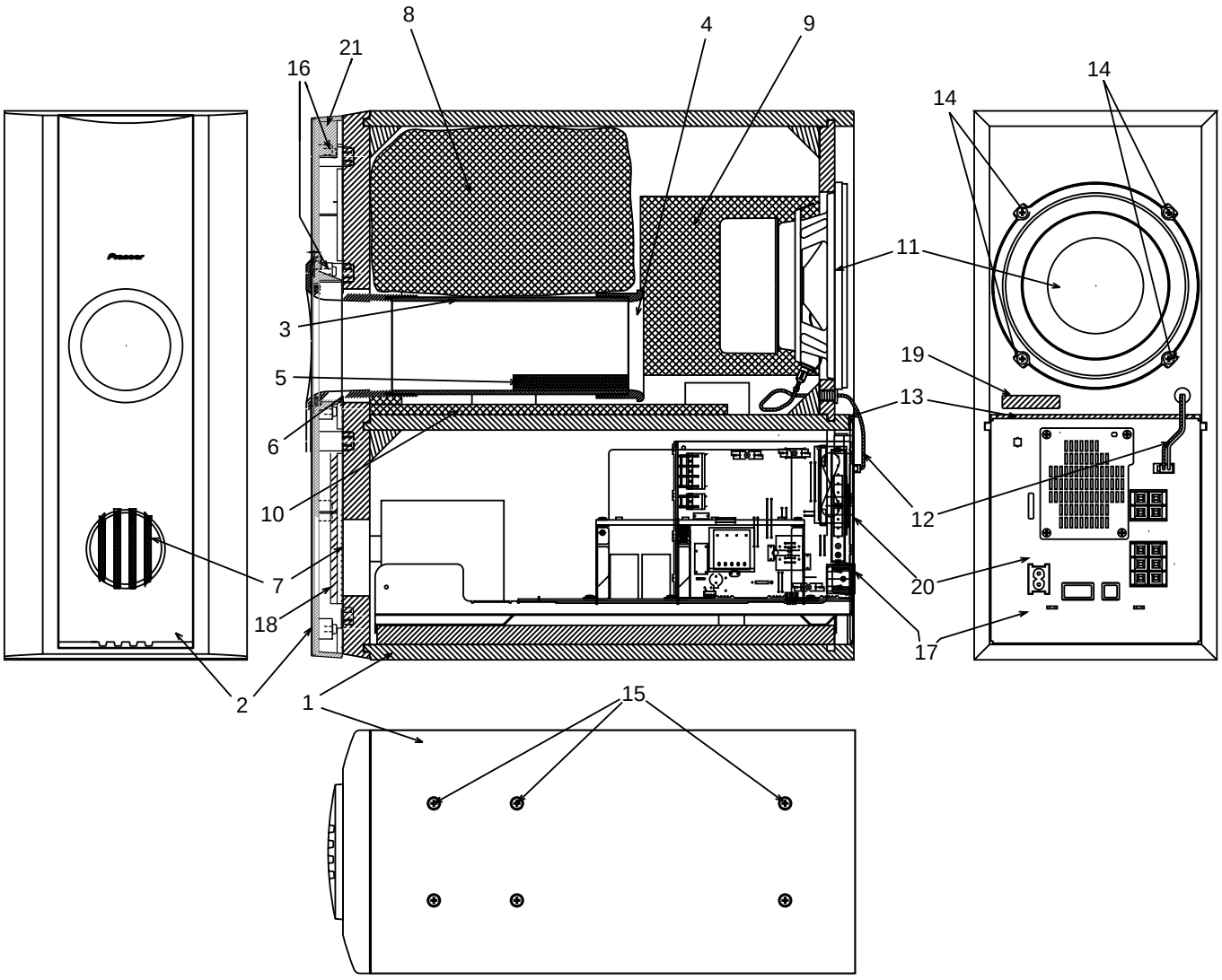
Mark	No.	Description	Part No.
	1	Poly Bag S6	SHL1292
	2	Packig Case	See Contrast table (2)
	3	Protector (Top)	SHA2313
	4	Protector (Bottom)	SHA2314
	5	Protector	SHB1097
	6	Operating Instructions (English/French)	ARE7276
	7	Operating Instructions (Setting up : English/French)	ARE7280
	8	Operating Instructions (Dutch/Spanish)	See Contrast table (2)
	9	Operating Instructions (Setting up : Dutch/Spanish)	See Contrast table (2)
	10	Operating Instructions (German/Italian)	See Contrast table (2)
	11	Operating Instructions (Setting up : German/Italian)	See Contrast table (2)
	12	Operating Instructions (Portuguese/Swedish)	See Contrast table (2)
	13	Operating Instructions (Setting up : Portuguese/Swedish)	See Contrast table (2)
	14	FM Antenna	ADH7005
	15	AM Loop Antenna	ATB7009
	16	Remote Control	AXD7305
NSP	17	Dry Cell Batteries (R6P/AA)	VEM1011
	18	Polyethylene Bag S3	SHL1293
	19	Battery Cover	103RRC14701R
⚠	20	AC Power Cord	See Contrast table (2)
NSP	21	Accessary Set	See Contrast table (2)
	22	Speaker Cord(5m:Red)	SDS1115
	23	Speaker Cord(5m:White)	SDS1116
	24	Speaker Cord(5m:Green)	SDS1117
	25	Speaker Cord(10m:Blue)	SDS1118
	26	Speaker Cord(10m:Gray)	SDS1119
	27	Non-Skid Pads	SEC1541
	28	Non-Skid Pads	SEC1563
	29	Cord With Plug	SDF1092
	30	20P Cable	ADE7079
	31	10P Cable	ADE7077
	32	12P Cable	ADE7064
NSP	33	Powered Subwoofer	See Contrast table (2)
NSP	34	Satellite Speakers (Front / Rear)	S-DV77ST/XJI/EW
NSP	35	Satellite Speaker (Center)	S-DV77ST/XJI/EW
	36	Protector (Top)	SHA2315
	37	Protector (Bottom)	SHA2316
	38	Accesary Box	SHG2342
	39	Polyethylene Bag S2	SHL1223
NSP	40	PP Band (15.5mm)	ZPX-PPBAND-15R5

(2) CONTRAST TABLE

S-DV77/MYXJI and S-DV77/NVXJI are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.		Remarks
			S-DV77 /MYXJI	S-DV77 /NVXJI	
	2	Packing Case	SHG2340	SHG2373	
	8	Operating Instructions (Dutch/Spanish)	ARC7335	Not used	
	9	Operating Instructions (Setting up : Dutch/Spanish)	ARC7340	Not used	
	10	Operating Instructions (German/Italian)	ARC7334	Not used	
	11	Operating Instructions (Setting up : German/Italian)	ARC7339	Not used	
	12	Operating Instructions (Portuguese/Swedish)	ARC7336	Not used	
	13	Operating Instructions (Setting up : Portuguese/Swedish)	ARC7341	Not used	
⚠	20	AC Power Cord	ADG1154	ADG1156	
NSP	21	Accessary Set	SME3156	SME3235	
NSP	33	Powered Subwoofer	S-DV77SW/MYXJI	S-DV77SW/NVXJI	

2.2 POWERED WOOFER SECTION



(1) POWERED WOOFER PARTS LIST

Mark	No.	Description	Part No.
NSP	1	Cabinet	SMM1943
NSP	2	Cosmetic Duct	SMR1336
NSP	3	Paper Tube 70	SMR1348
NSP	4	Duct Ring	SMR1339
	5	Damper	SER1300
	6	Packing	SEC1539
NSP	7	Mesh	SNC1188
NSP	8	Acoustic Absorbent (Polyester Fiber)	SMV2079
NSP	9	Acoustic Absorbent (Duffel Felt)	SMV2077
NSP	10	Acoustic Absorbent (Duffel Felt)	SMV2078
	11	Speaker	T16EU92-51C
	12	Conecting Cord	SDF1092
	13	Packing	SEC1540
	14	Screw (M4×16) (for Speaker)	BYC40P160FZB
	15	Screw (M4×18) (for Amplifier Assy fixing)	BYC40P180FZB
	16	Screw (M4×12) (for Cosmetic Duct)	BPZ40P120FZK
NSP	17	AMPLIFIER Assy	See Contrast table(2)
	18	Packing	SEC1561
	19	Serial Label	See Contrast table(2)
	20	Rear Panel	See Contrast table(2)
	21	Cosmetic Baffle	SNK2520

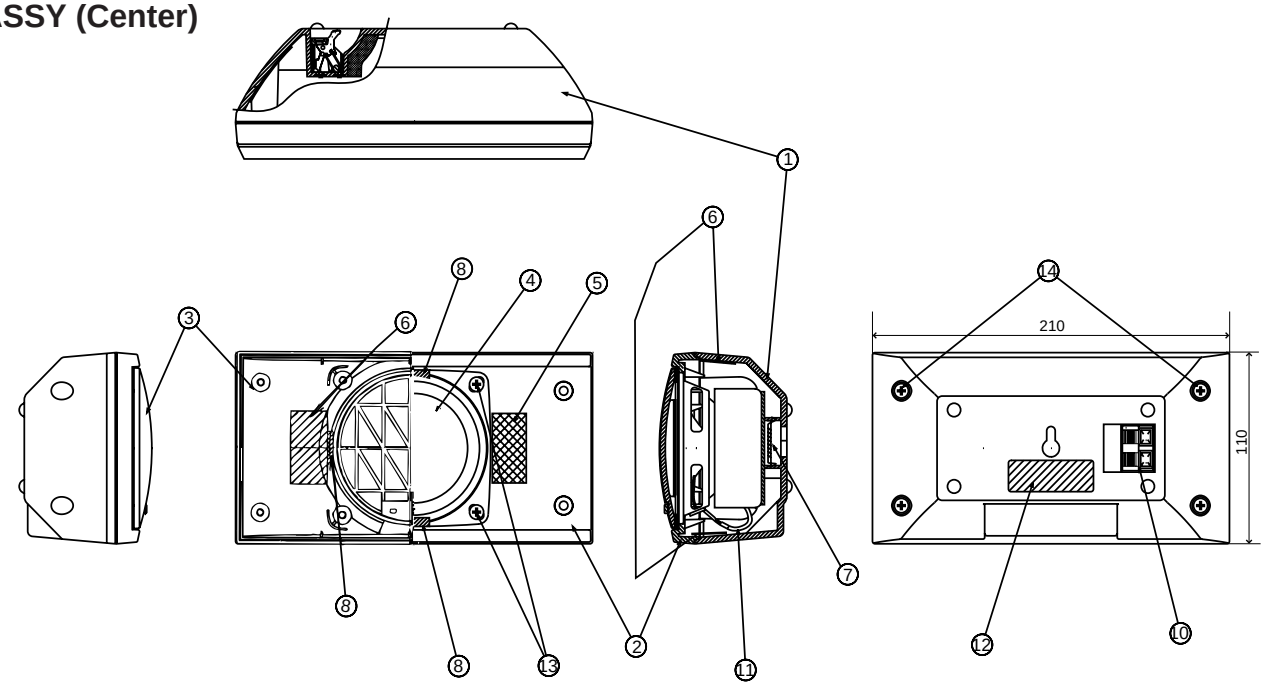
(2) CONTRAST TABLE

S-DV77SW/MYXJI and S-DV77SW/NVXJI are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.		Remarks
			S-DV77SW /MYXJI	S-DV77SW /NVXJI	
NSP	17	AMPLIFIER ASSY (DVD AMP : AWM7625)	AXX7105	AXX7101	Refer to 2.4 section.
NSP	19	Serial Label	SME3154	SME3198	
	20	Rear Panel	ANC8027	ANC8005	

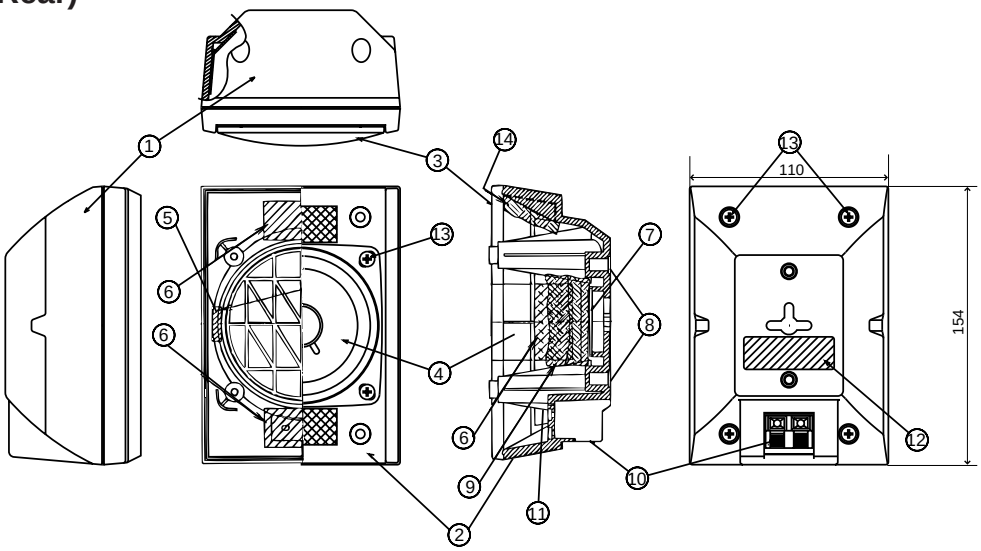
2.3 SATELLITE SPEAKER SECTION (S-DV77ST/XJI/EW)

● CS ASSY (Center)



No.	Part name	Num	Remarks	No.	Part name	Num	Remarks
1	Cabinet	1		8	Packing	2	
2	• • •			9	Acoustic Absorbent	2	
3	Grille	1		10	Input Terminal	1	
4	Speaker	1		11	Speaker Wire	1	
5	• • •			12	Label Back	1	
6	Damper	4		13	Screw (M4 × 8)	4	
7	Packing	1		14	Screw (M4 ×14)	4	

● CS ASSY (Front / Rear)



No.	Part name	Num	Remarks	No.	Part name	Num	Remarks
1	Cabinet	1		8	Fin-Lok (M5)	2	
2	• • •			9	Acoustic Absorbent	1	
3	Grille	1		10	Input Terminal	1	
4	Speaker	1		11	Speaker Wire	1	
5	Packing	2		12	Label Back	1	
6	Damper	4		13	Screw (M4 ×14)	4	
7	Packing	1		14	Acoustic Absorbent	1	

● SATELLITE SPEAKER PARTS LIST

Mark	No.	Description	Part No.
NSP		CS ASSY (Center)	SMW1657
NSP		CS ASSY (Front/Rear)	SMW1658

● CS ASSY (Center)

● PARTS LIST

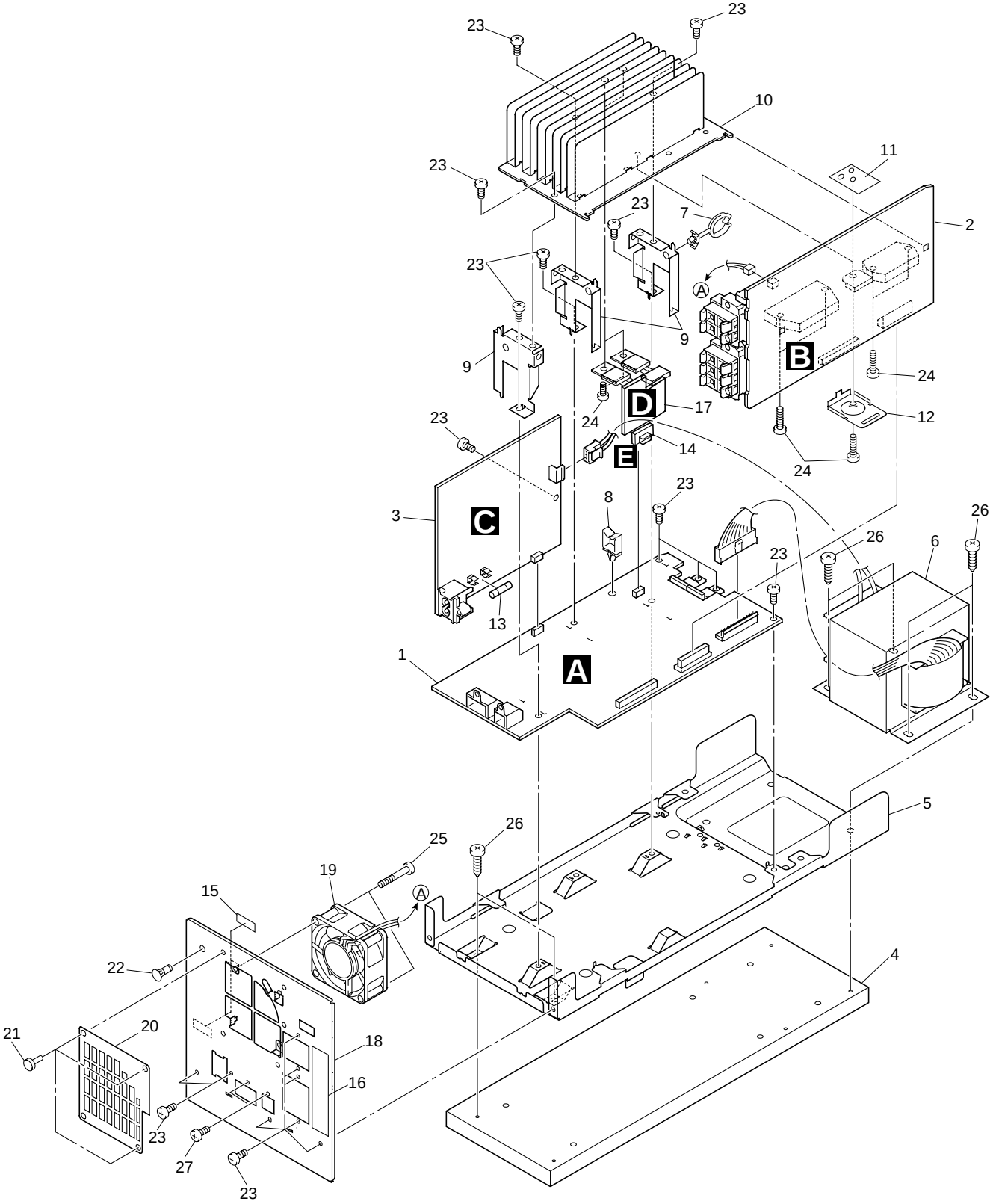
Mark	No.	Description	Part No.
		Speaker	D87DU61-53F
		Screw (for Speaker)	BPZ40P080FZK
		Screw (for Grill and Cabinet)	BPZ40P140FZK
		Speaker Wire	SDD1303
		Packing	SEC1533
		Damper	SEP1238
		Input Terminal	KKX1015
		Grill	SMG1729
NSP		├ Badge23	SAM1487
NSP		├ Grill Cloth	SAS1499
NSP		└ Grill Frame	SMH1033
NSP		Acoustic Absorbent	SMV2090
NSP		Cabinet	SNK2540
		Packing	SNK2541

● CS ASSY (Front/Rear)

● PARTS LIST

Mark	No.	Description	Part No.
		Speaker	D87DU61-53F
		Screw (for Speaker, Grill and Cabinet)	BPZ40P140FZK
		Fin-Lok M5 (for stand)	SBN1049
		Speaker Wire	SDD1303
		Packing	SEC1533
		Damper	SEP1238
		Input Terminal	KKX1015
		Grill	SMG1728
NSP		├ Badge23	SAM1487
NSP		├ Grill Cloth	SAS1498
NSP		└ Grill Frame	SMH1032
NSP		Acoustic Absorbent	SMV1940
NSP		Acoustic Absorbent	SMV2090
NSP		Cabinet	SNK2539
		Packing	SNK2541

2.4 AMPLIFIER ASSY



● AMPLIFIER ASSY PARTS LIST

Mark	No.	Description	Part No.
	1	AF ASS'Y	AWU7825
	2	AMP ASS'Y	AWU7827
	3	PRI ASS'Y	AWU7824
	4	Wood Base	AMM7006
NSP	5	Chassis	ANA7109
⚠	6	Power Transformer	ATS7307
NSP	7	Harness Lifter	AEC7296
	8	Wire Saddle	AEC7297
	9	Heat Sink Holder	ANG7317
NSP	10	Heat Sink	ANH7130
	11	Mica Seat	AEE7034
	12	IC Holder	ANG7318
⚠	13	Fuse (T3.15A)	REK1027
	14	TRADE ASS'Y	AWU7828
NSP	15	Seriall Label	RRW-168
NSP	16	SP Label	AAX7872
	17	REG ASS'Y	AWU7826
	18	Rear Panel	See Contrast table(2)
	19	DC Fan Motor	AXM7014
	20	Fan Cover	AEC7280
	21	Nylon Rivet	AEC7318
NSP	22	PCB Holder	AEC7057
	23	Screw	BBZ30P080FMC
	24	Screw	BBZ30P140FMC
	25	Screw	BBZ30P300FZK
	26	Screw	BYC40P140FMC
	27	Screw	PSC30P080FNI

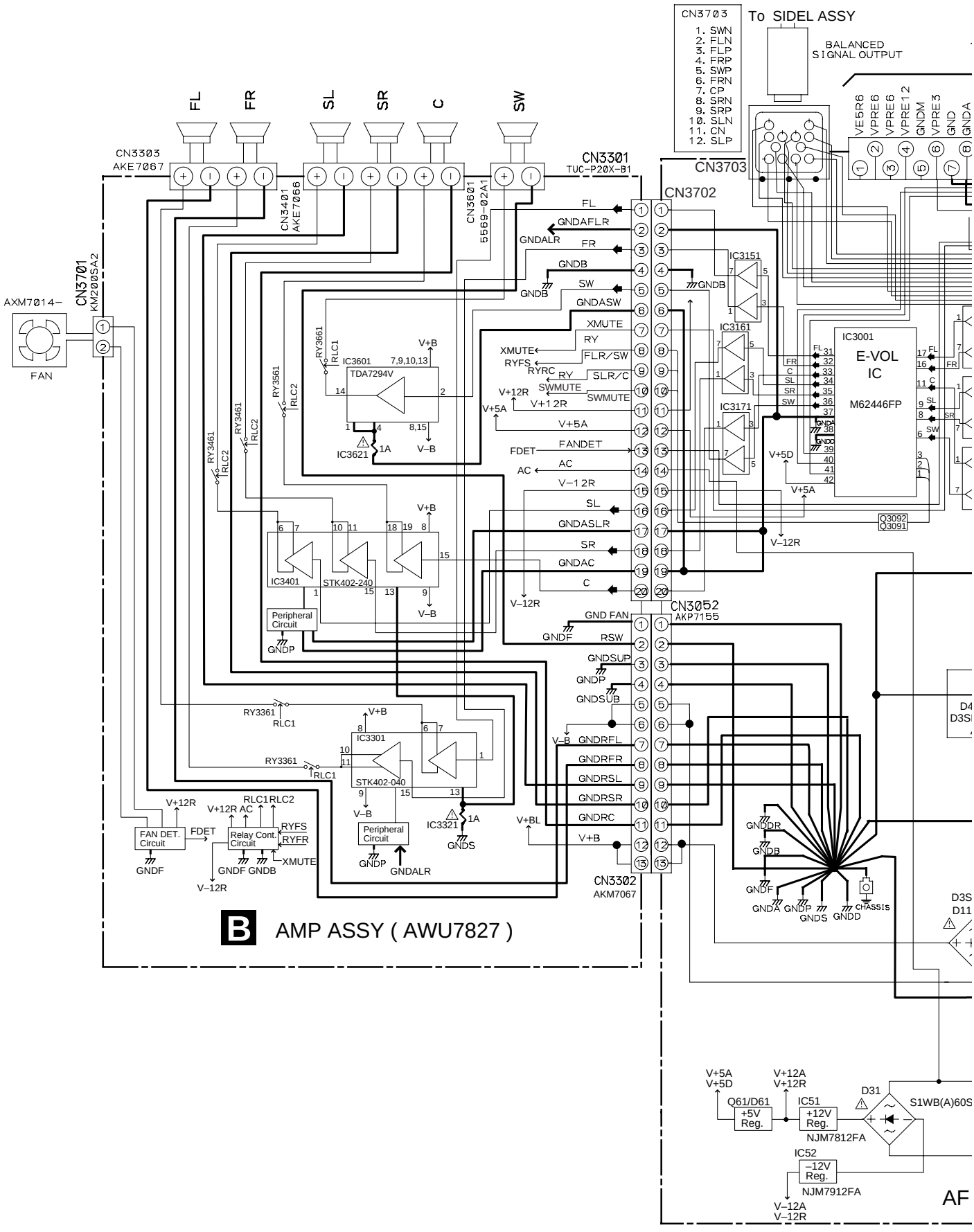
(2) CONTRAST TABLE

S-DV77SW/MYXJI and S-DV77SW/NVXJI are constructed the same except for the following:

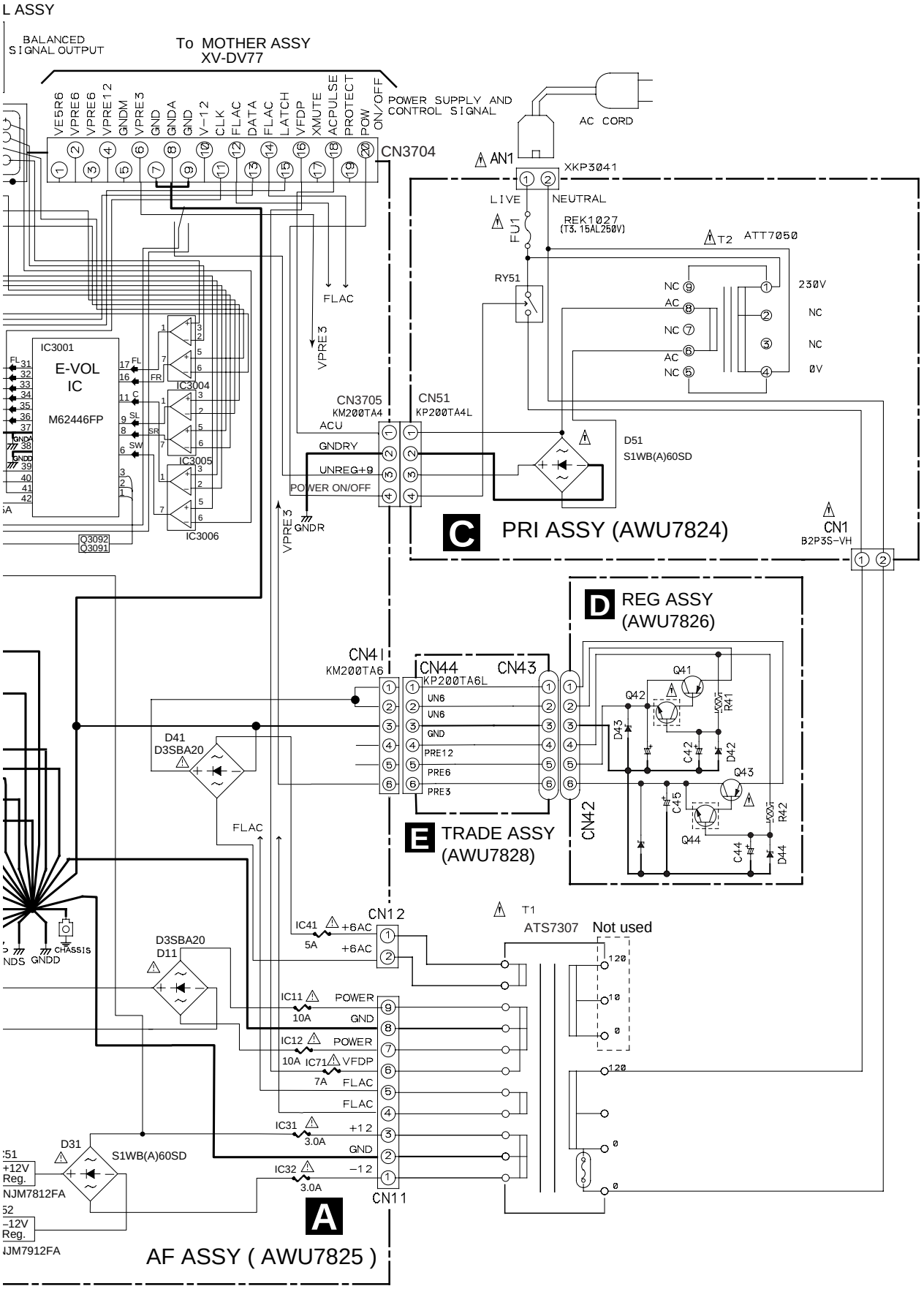
Mark	No.	Symbol and Description	Part No.		Remarks
			S-DV77SW /MYXJI	S-DV77SW /NVXJI	
	18	Rear Panel	ANC8027	ANC8005	

3. BLOCKDIAGRAM AND SCHEMATIC DIAGRAM

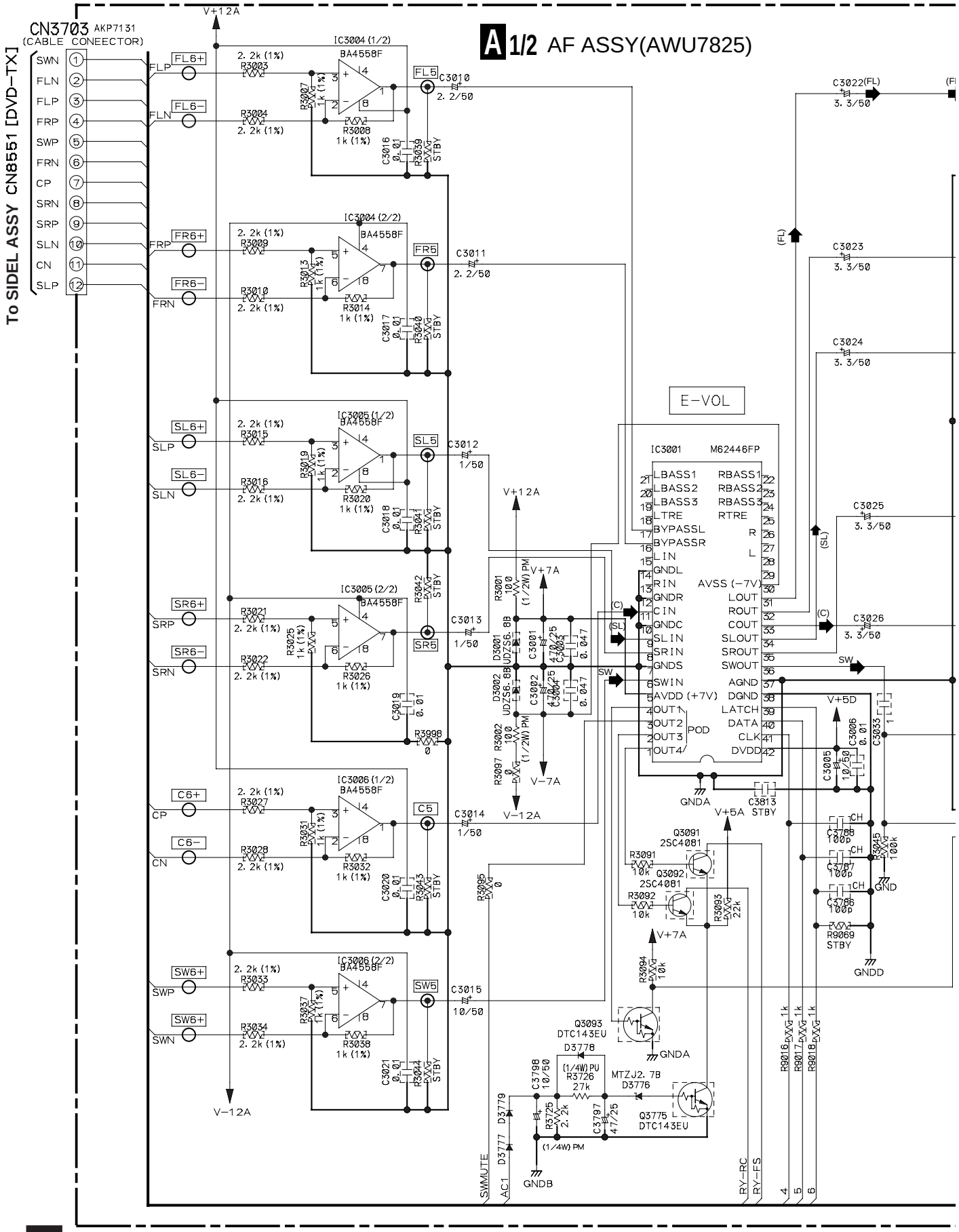
3.1 BLOCK DIAGRAM AND OVERALL CONNECTION DIAGRAM

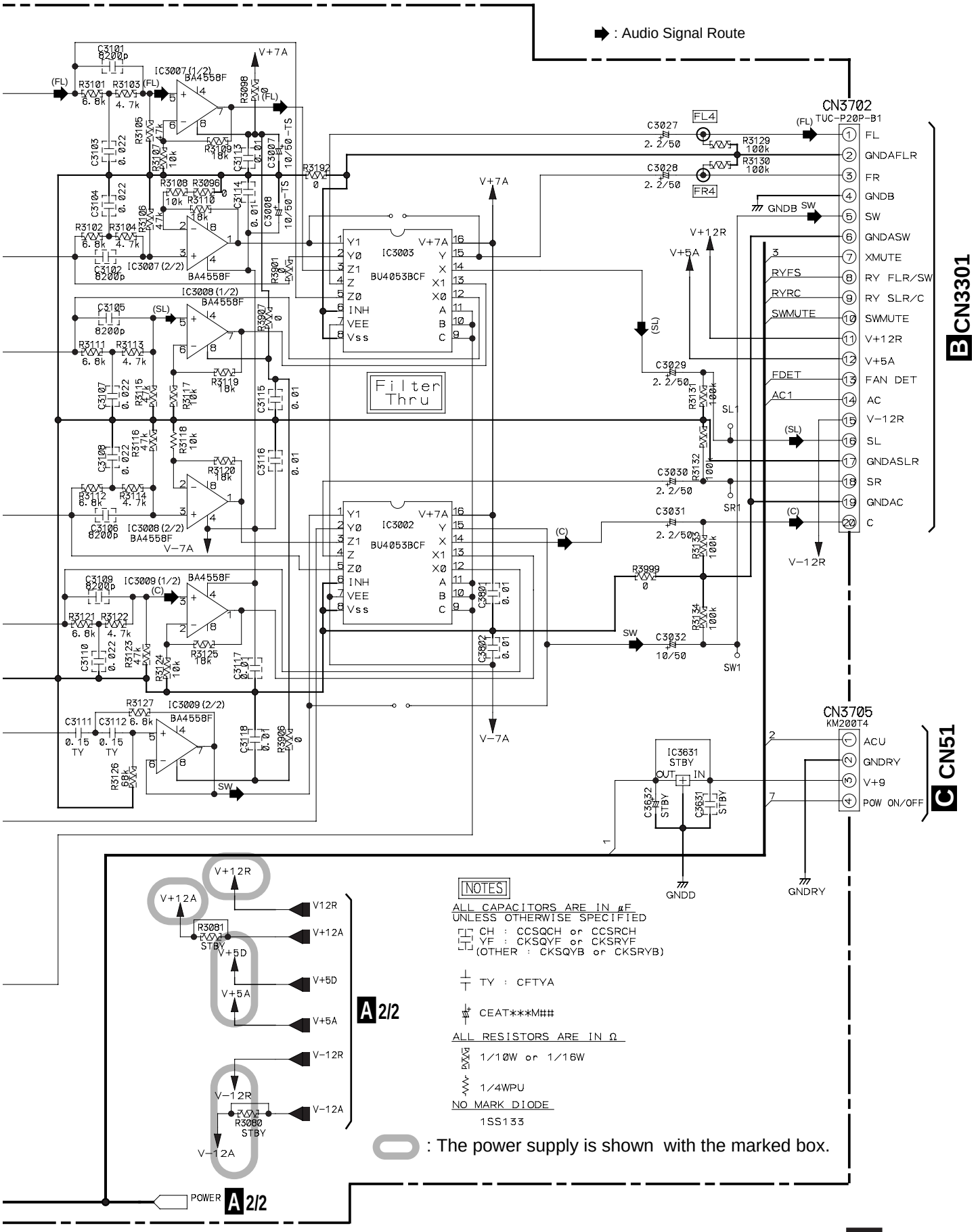


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

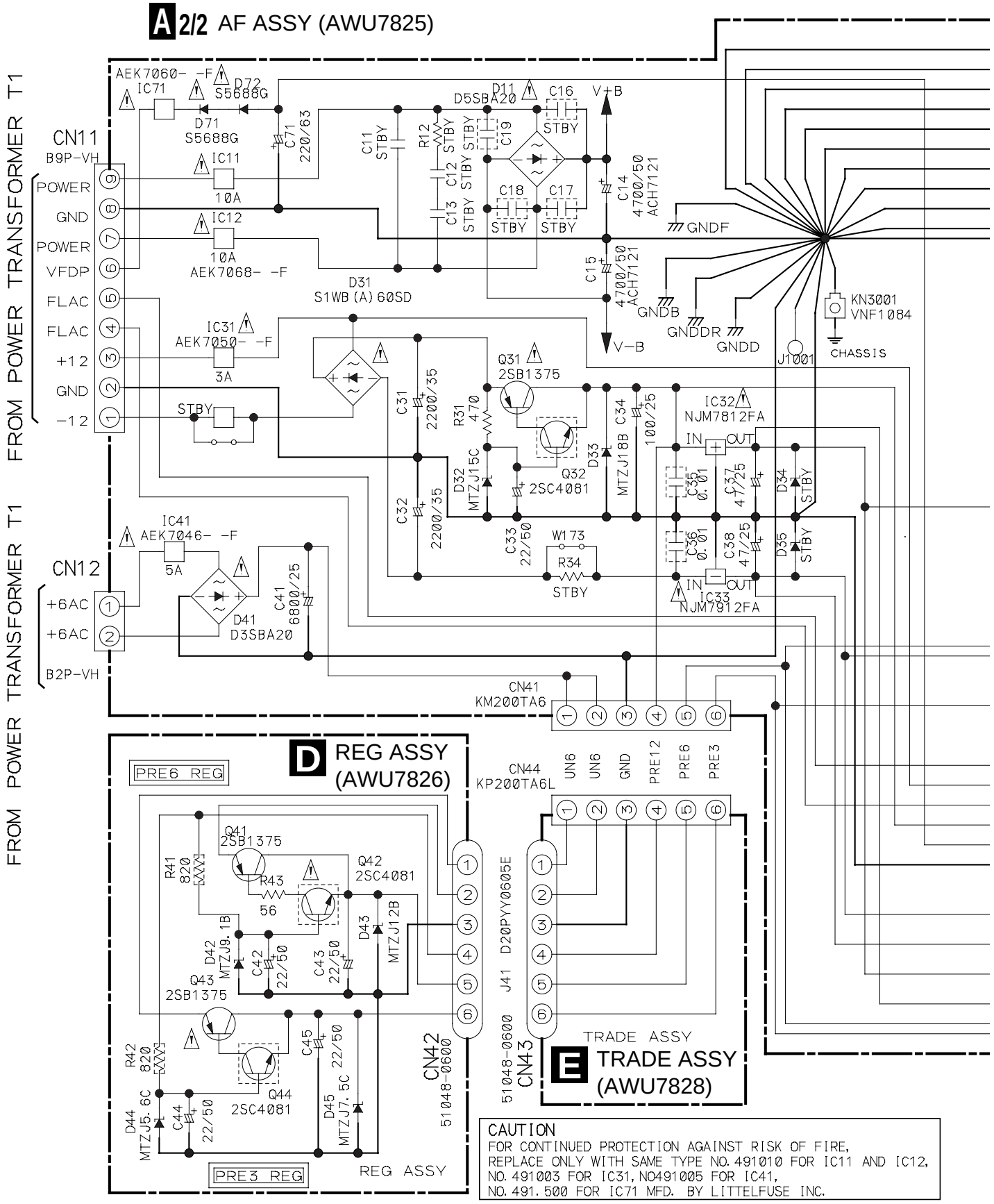


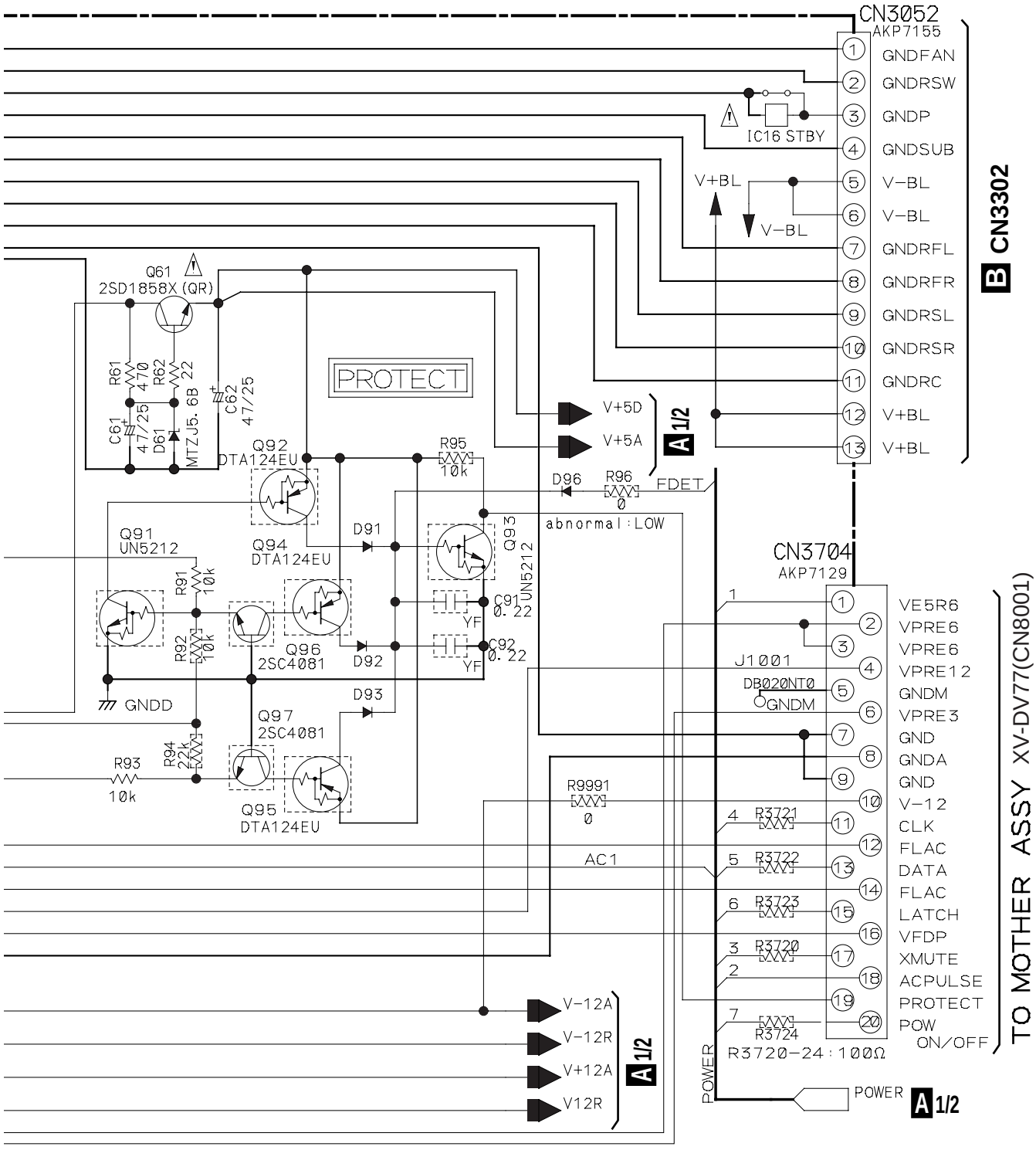
3.2 AF ASSY (1/2)


A1/2 AF ASSY(AWU7825)
CN3703 AKP7131
(CABLE CONEECTOR)
To SIDEL ASSY CN8551 [DVD-TX]
SWN
FLN
FLP
FRP
SWP
FRN
CP
SRN
SRP
SLN
CN
SLP
V+12A
V-12A
V+7A
V-7A
V+5A
V+5D
IC3004 (1/2)
IC3004 (2/2)
IC3005 (1/2)
IC3005 (2/2)
IC3006 (1/2)
IC3006 (2/2)
BA4558F
IC3001 M62446FP
E-VOL
POD
LBASS1
LBASS2
LBASS3
LTRE
BYPASSL
BYPASSR
LIN
GNDL
RIN
GNDR
CIN
GNDC
SLIN
SRIN
GNDS
SWIN
AVDD (+7V)
OUT1
OUT2
OUT3
OUT4
RBASS1
RBASS2
RBASS3
RTRE
R
L
AVSS (-7V)
LOUT
ROUT
COUT
SLOUT
SROUT
SWOUT
AGND
DGND
LATCH
DATA
CLK
DVDD
FL6+
FL6-
FR6+
FR6-
SL6+
SL6-
SR6+
SR6-
C6+
C6-
SW6+
SW6-
FL5
FR5
SL5
SR5
C5
SW5
C3010
C3011
C3012
C3013
C3014
C3015
C3022(FL)
C3023
C3024
C3025
C3026
Q3091 2SC4081
Q3092 2SC4081
Q3093 DTC143EU
Q3775 DTC143EU
D3778
D3776
D3777
D3779
GNDA
GNDB
GNDD
SWMUTE
AC1
RY-RC
RY-FS
STBY
SW
(FL)
(SL)
(C)


: Audio Signal Route
CN3702
TUC-P20P-B1
1 FL
2 GNDAFLR
3 FR
4 GNDB
5 SW
6 GNDASW
7 XMUTE
8 RY FLR/SW
9 RY SLR/C
10 SWMUTE
11 V+12R
12 V+5A
13 FAN DET
14 AC
15 V-12R
16 SL
17 GNDASLR
18 SR
19 GNDAC
20 C
B CN3301
CN3705
KM200T4
1 ACU
2 GNDRY
3 V+9
4 POW ON/OFF
C CN51
IC3003 BU4053BCF
IC3002 BU4053BCF
Filter Thru
IC3007 (1/2) BA4558F
IC3007 (2/2) BA4558F
IC3008 (1/2) BA4558F
IC3008 (2/2) BA4558F
IC3009 (1/2) BA4558F
IC3009 (2/2) BA4558F
IC3631 STBY
V+7A
V-7A
V+12R
V+5A
V-12R
GNDB
SW
SL
SR
C
FL4
FR4
GNDD
GNDRY
A 2/2
POWER A 2/2
V+12A
V12R
V+5D
V-12A
R3081 STBY
R3080 STBY
NOTES
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
CH : CCSQCH or CCSRCH
YF : CKSQYF or CKSRYF
(OTHER : CKSQYB or CKSRYB)
TY : CFTYA
CEAT***M###
ALL RESISTORS ARE IN Ω
1/10W or 1/16W
1/4WPU
NO MARK DIODE
1SS133
: The power supply is shown with the marked box.

3.3 AF ASSY (2/2), REG ASSY and TRADE ASSY





NOTES

ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
CH : CCSQCH or CCSRCH
YF : CKSQYF or CKSRYF
(OTHER : CKSQYB or CKSRYB)

CEAT***M##

ALL RESISTORS ARE IN Ω

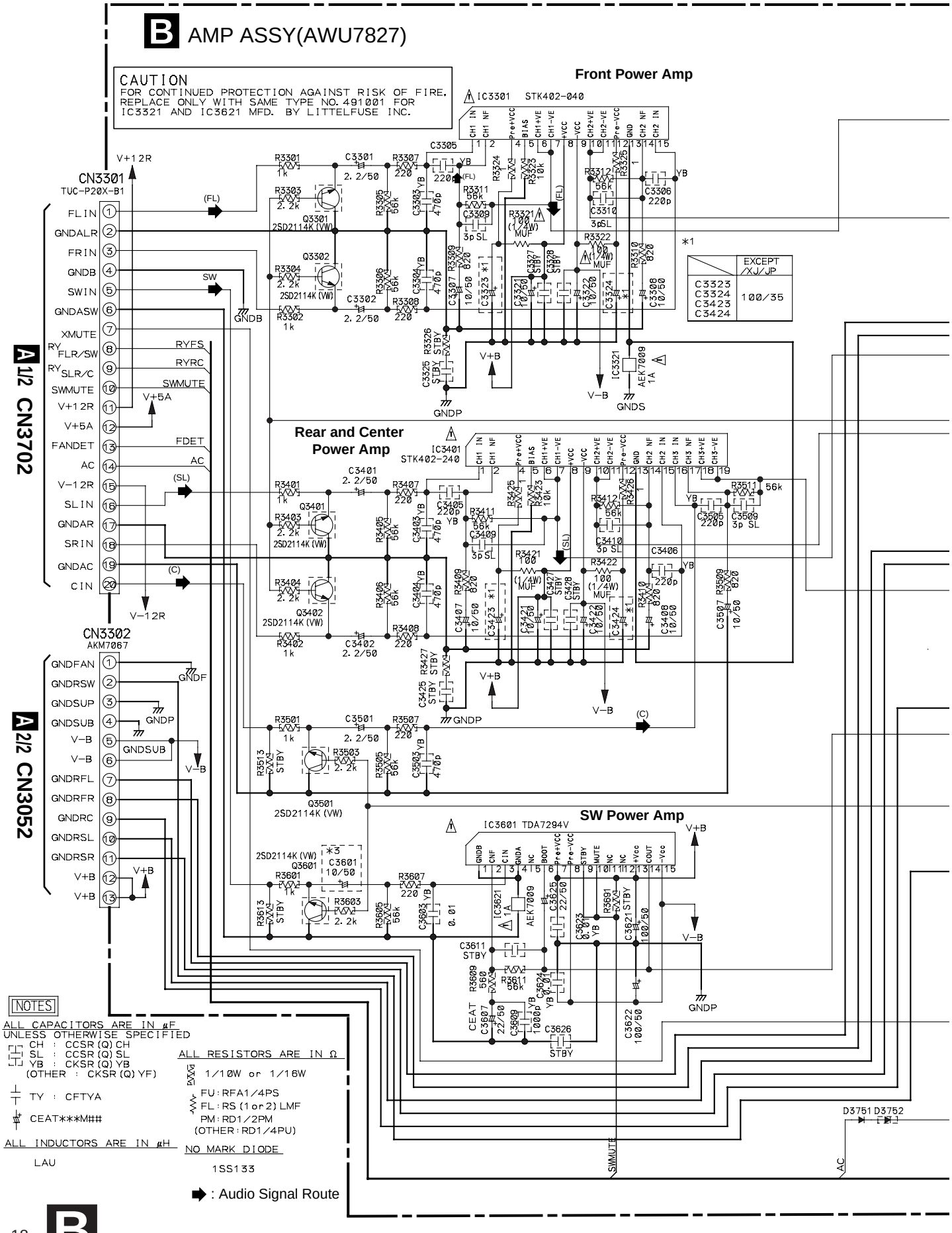
1/10W or 1/16W

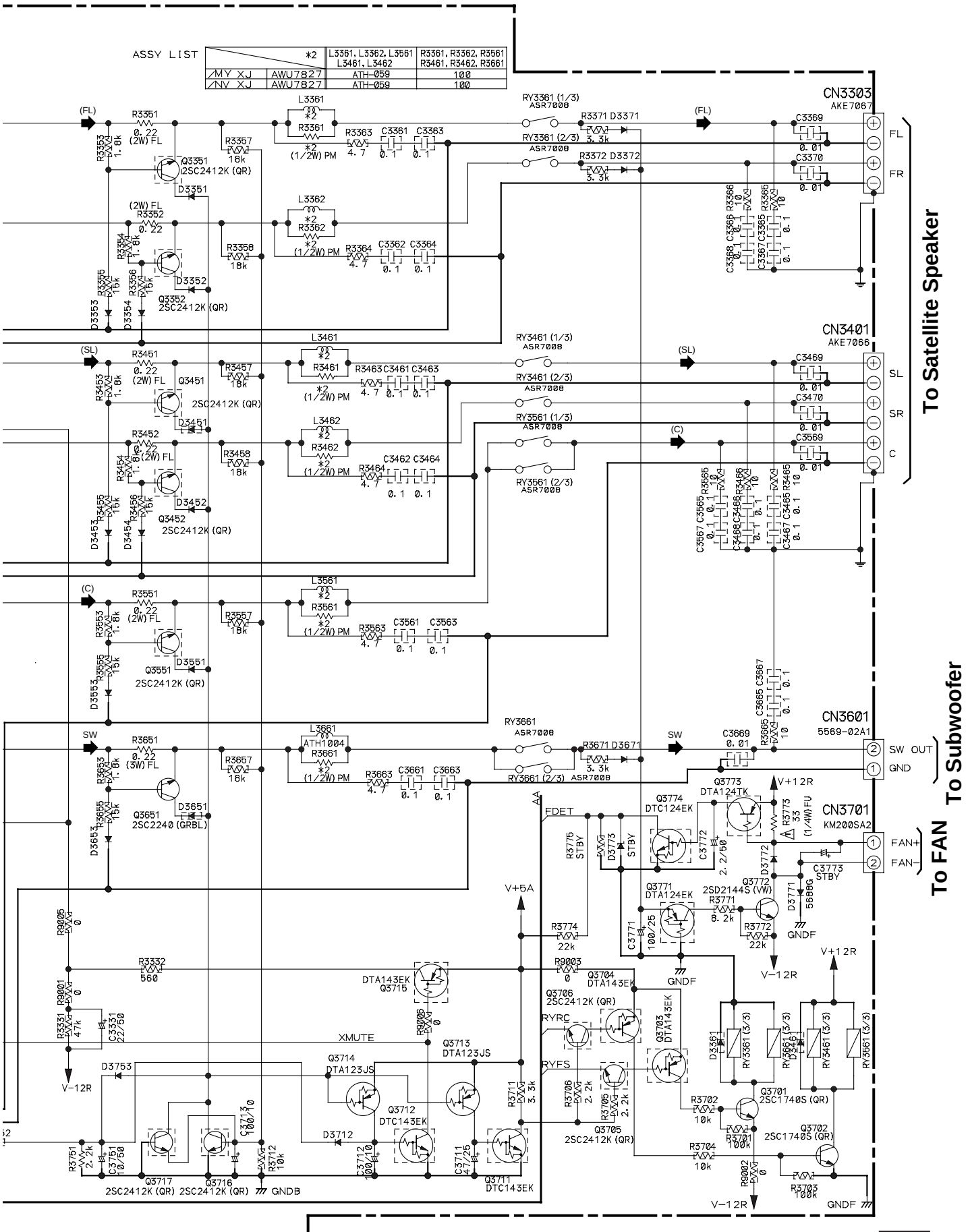
1/4WPU

NO MARK DIODE

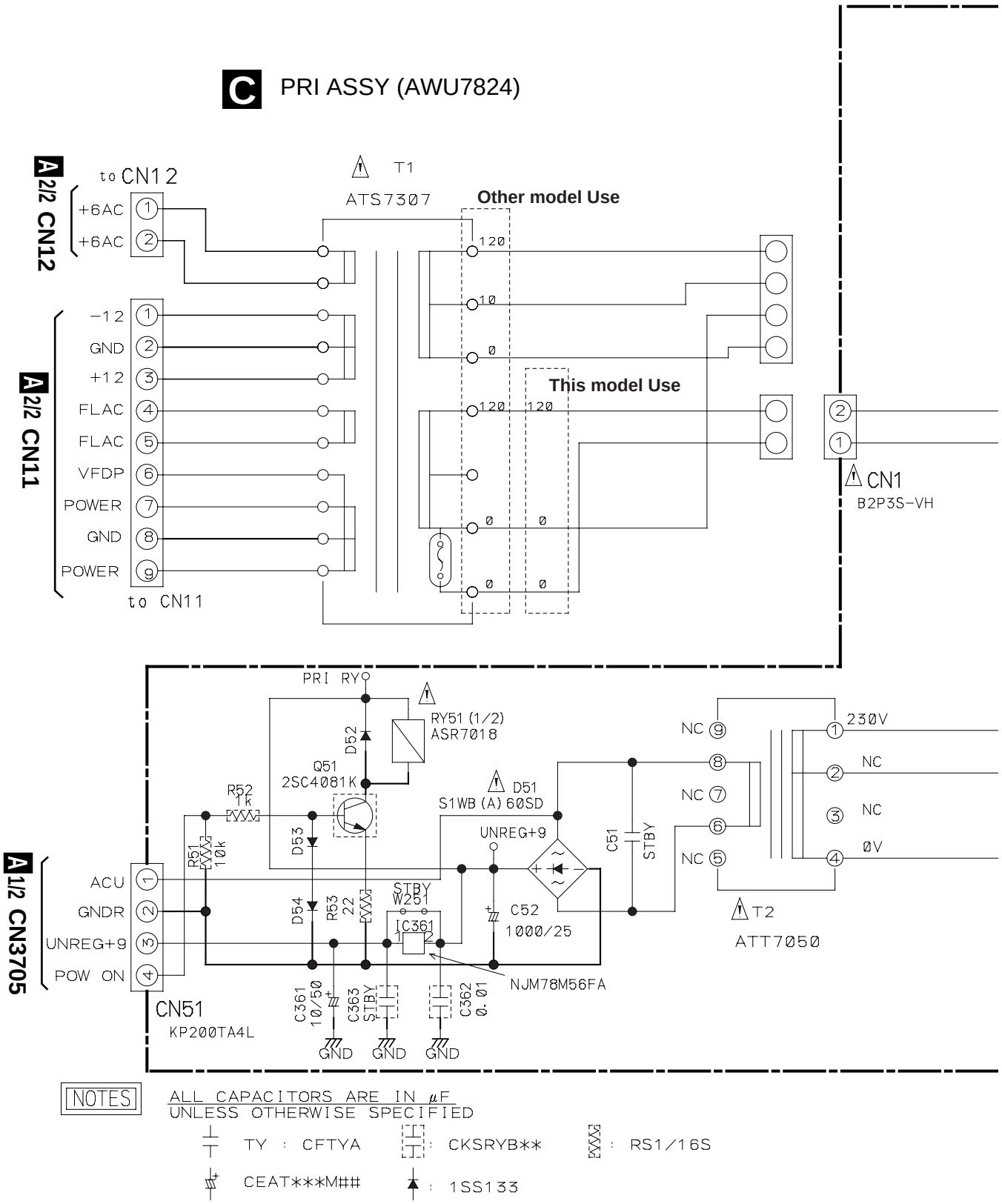
1SS133

3.4 AMP ASSY


B AMP ASSY(AWU7827)
CAUTION
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE NO.491001 FOR
IC3321 AND IC3621 MFD. BY LITTLEFUSE INC.
Front Power Amp
IC3301 STK402-040
CN3301
TUC-P20X-B1
FLIN
GNDALR
FRIN
GNDB
SWIN
GNDASW
XMUTE
RY FLR/SW
RY SLR/C
SWMUTE
V+12R
V+5A
FANDET
AC
V-12R
SLIN
GNDAR
SRIN
GNDAC
CIN
A 1/2 CN3702
Q3301 2SD2114K (VW)
Q3302 2SD2114K (VW)
Rear and Center Power Amp
IC3401 STK402-240
Q3401 2SD2114K (VW)
Q3402 2SD2114K (VW)
CN3302
AKM7067
GNDFAN
GNDRSW
GNDSUP
GNDSUB
V-B
V-B
GNDRFL
GNDRFR
GNDRC
GNDRSL
GNDRSR
V+B
V+B
A 2/2 CN3052
Q3501 2SD2114K (VW)
SW Power Amp
IC3601 TDA7294V
Q3601 2SD2114K (VW)
EXCEPT /XJ/JP
C3323 C3324 C3423 C3424 100/35
NOTES
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
CH : CCSR(Q)CH
SL : CCSR(Q)SL
YB : CKSR(Q)YB
(OTHER : CKSR(Q)YF)
TY : CFTYA
CEAT***M##
ALL INDUCTORS ARE IN μH
LAU
ALL RESISTORS ARE IN Ω
1/10W or 1/16W
FU:RFA1/4PS
FL:RS(1or2)LMF
PM:RD1/2PM
(OTHER:RD1/4PU)
NO MARK DIODE
1SS133
: Audio Signal Route
D3751 D3752
SWMUTE
AC


ASSY LIST
*2
L3361, L3362, L3561
L3461, L3462
R3361, R3362, R3561
R3461, R3462, R3661
/MY XJ
AWU7827
ATH-059
100
/NV XJ
AWU7827
ATH-059
100
CN3303
AKE7067
FL
FR
CN3401
AKE7066
SL
SR
C
To Satellite Speaker
CN3601
5569-02A1
SW OUT
GND
To Subwoofer
CN3701
KM200SA2
FAN+
FAN-
To FAN
RY3361 (1/3) ASR7008
RY3361 (2/3) ASR7008
RY3461 (1/3) ASR7008
RY3461 (2/3) ASR7008
RY3561 (1/3) ASR7008
RY3561 (2/3) ASR7008
RY3661 ASR7008
R3371 D3371
R3372 D3372
R3671 D3671
Q3351 2SC2412K (QR)
Q3352 2SC2412K (QR)
Q3451 2SC2412K (QR)
Q3452 2SC2412K (QR)
Q3551 2SC2412K (QR)
Q3651 2SC2240 (GRBL)
Q3717 2SC2412K (QR)
Q3716 2SC2412K (QR)
Q3706 2SC2412K (QR)
Q3705 2SC2412K (QR)
Q3774 DTA124EK
Q3773 DTA124TK
Q3771 DTA124EK
Q3772 2SD2144S (VW)
Q3715 DTA143EK
Q3704 DTA143EK
Q3703 DTA143EK
Q3711 DTC143EK
Q3712 DTC143EK
Q3714 DTA123JS
Q3713 DTA123JS
Q3701 2SC1740S (QR)
Q3702 2SC1740S (QR)
V+12R
V-12R
V+5A
GNDF
GNDB
FDET
STBY
XMUTE
RYRC
RYFS

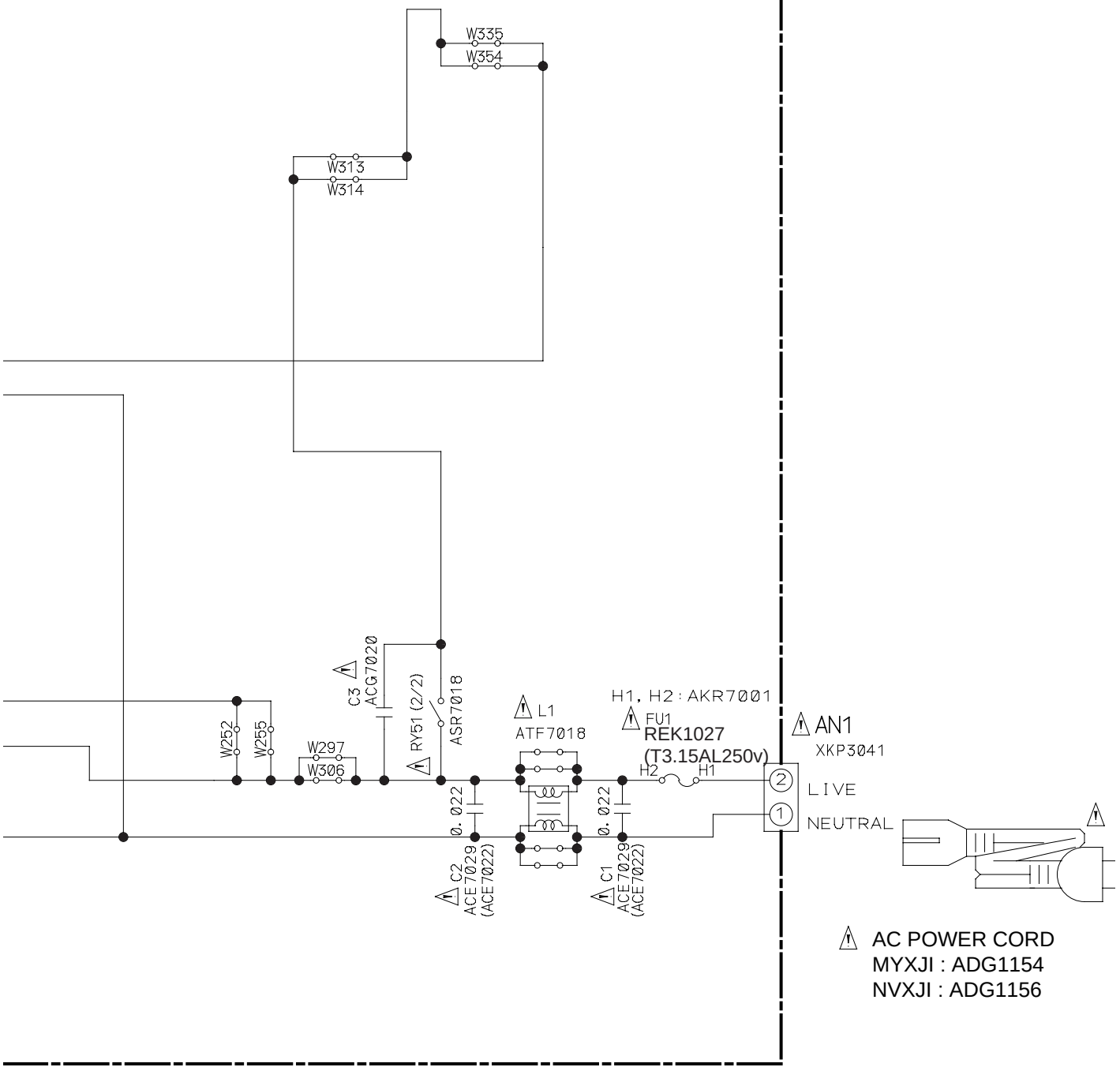
3.5 PRI ASSY


C PRI ASSY (AWU7824)
A 2/2 CN12
to CN12
+6AC
+6AC
T1
ATS7307
Other model Use
120
10
0
This model Use
120
120
0
0
0
0
A 2/2 CN11
−12
GND
+12
FLAC
FLAC
VFDP
POWER
GND
POWER
to CN11
CN1
B2P3S-VH
PRI RY
RY51 (1/2)
ASR7018
D52
Q51
2SC4081K
R52
1k
D51
S1WB (A) 60SD
UNREG+9
C51
STBY
NC
NC
NC
NC
230V
NC
0V
T2
ATT7050
R51
10k
D53
D54
R53
22
STBY
W251
IC361
C52
1000/25
A 1/2 CN3705
ACU
GNDR
UNREG+9
POW ON
CN51
KP200TA4L
NJM78M56FA
C361
10/50
C363
STBY
C362
0.01
GND
GND
GND
NOTES
ALL CAPACITORS ARE IN μF
UNLESS OTHERWISE SPECIFIED
TY : CFTYA
CKSRYB**
RS1/16S
CEAT***M##
1SS133

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

C PRI ASSY (AWU7824)



AC POWER CORD
MYXJI : ADG1154
NVXJI : ADG1156

4. PCB CONNECTION DIAGRAM

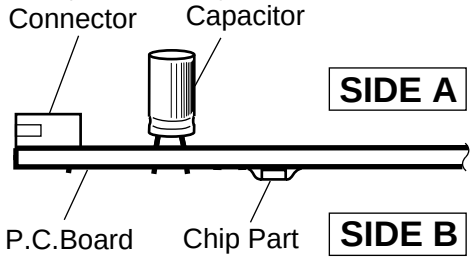
4.1 AF ASSY

NOTE FOR PCB DIAGRAMS :

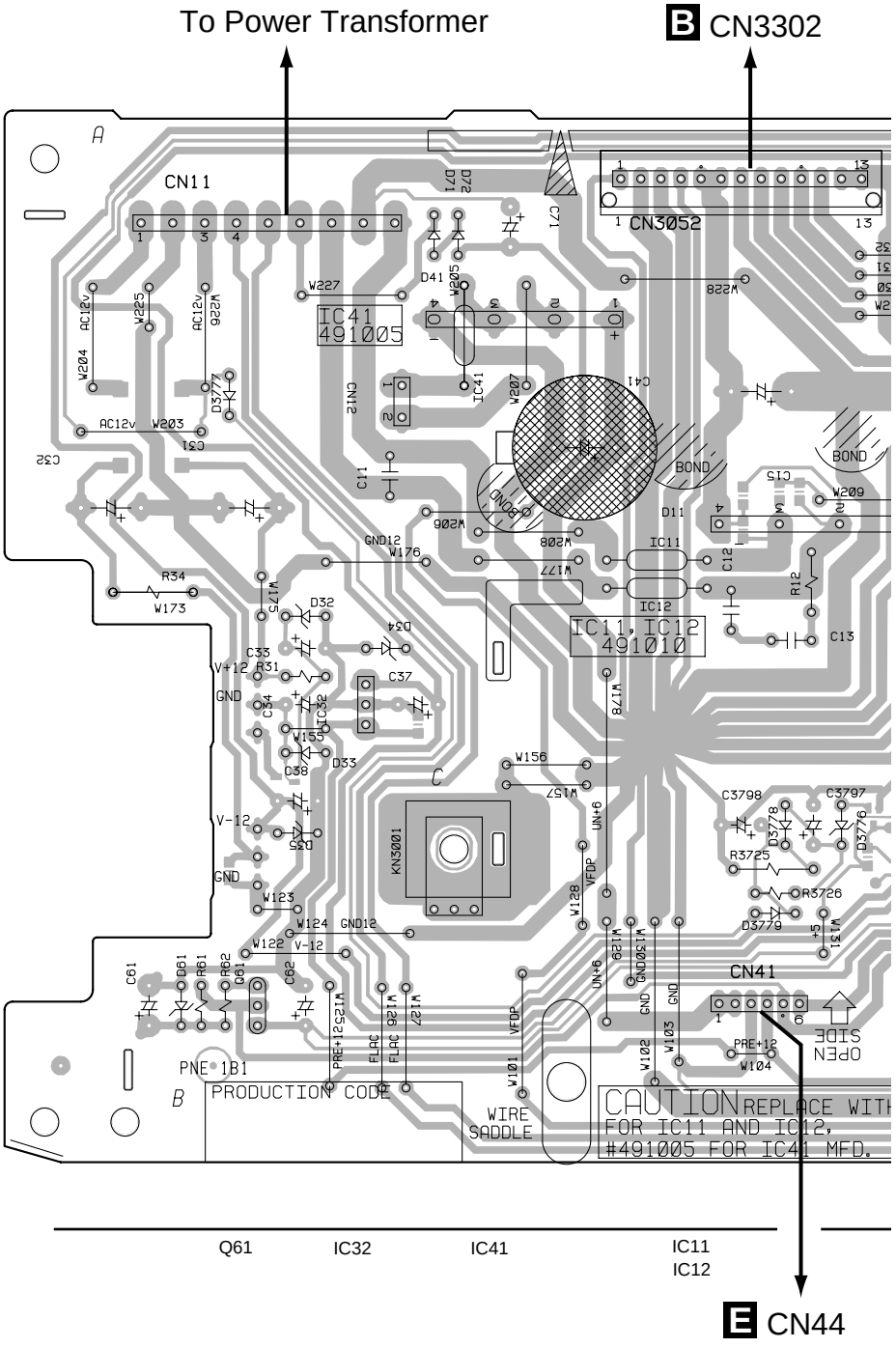
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

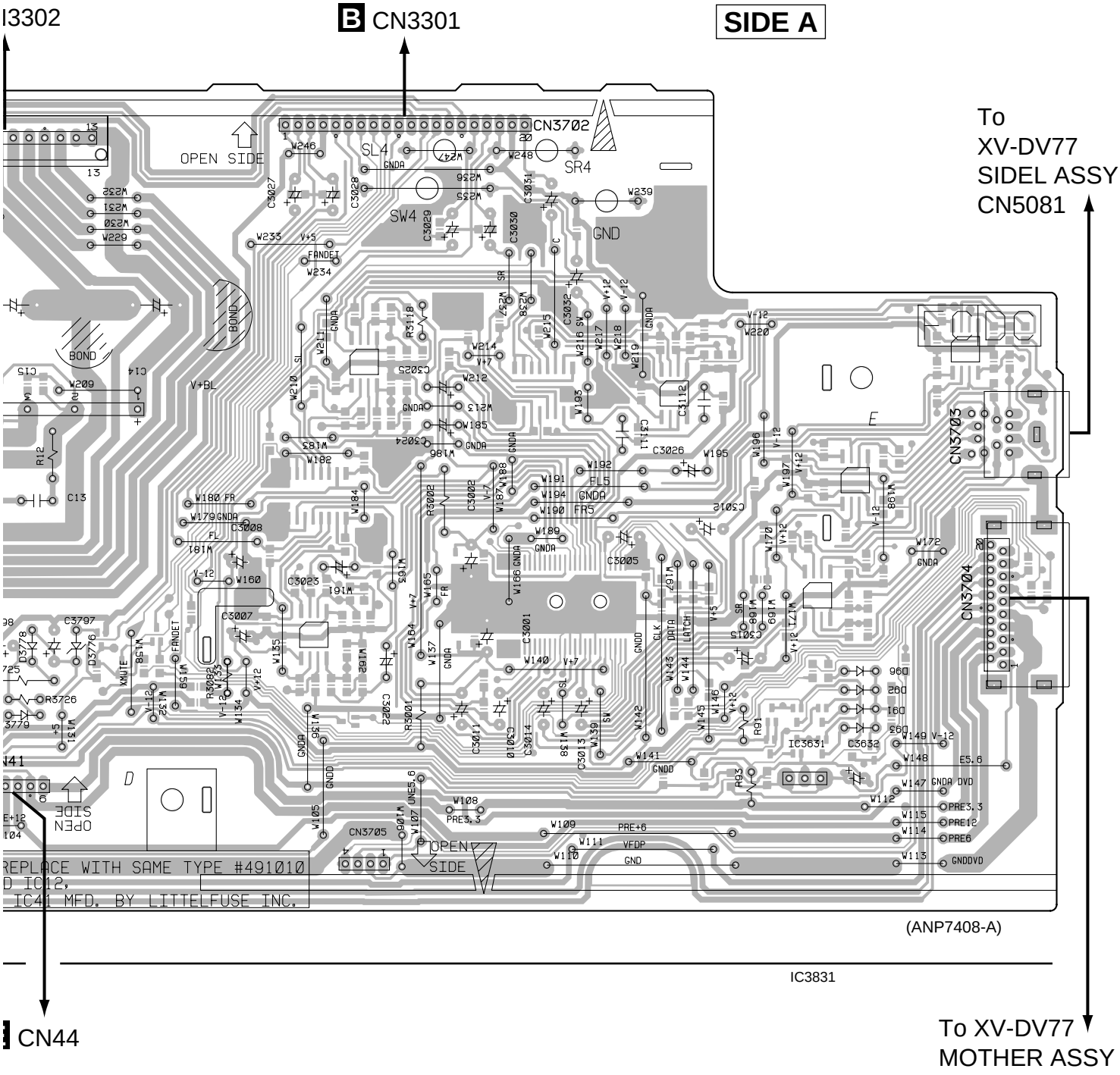
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

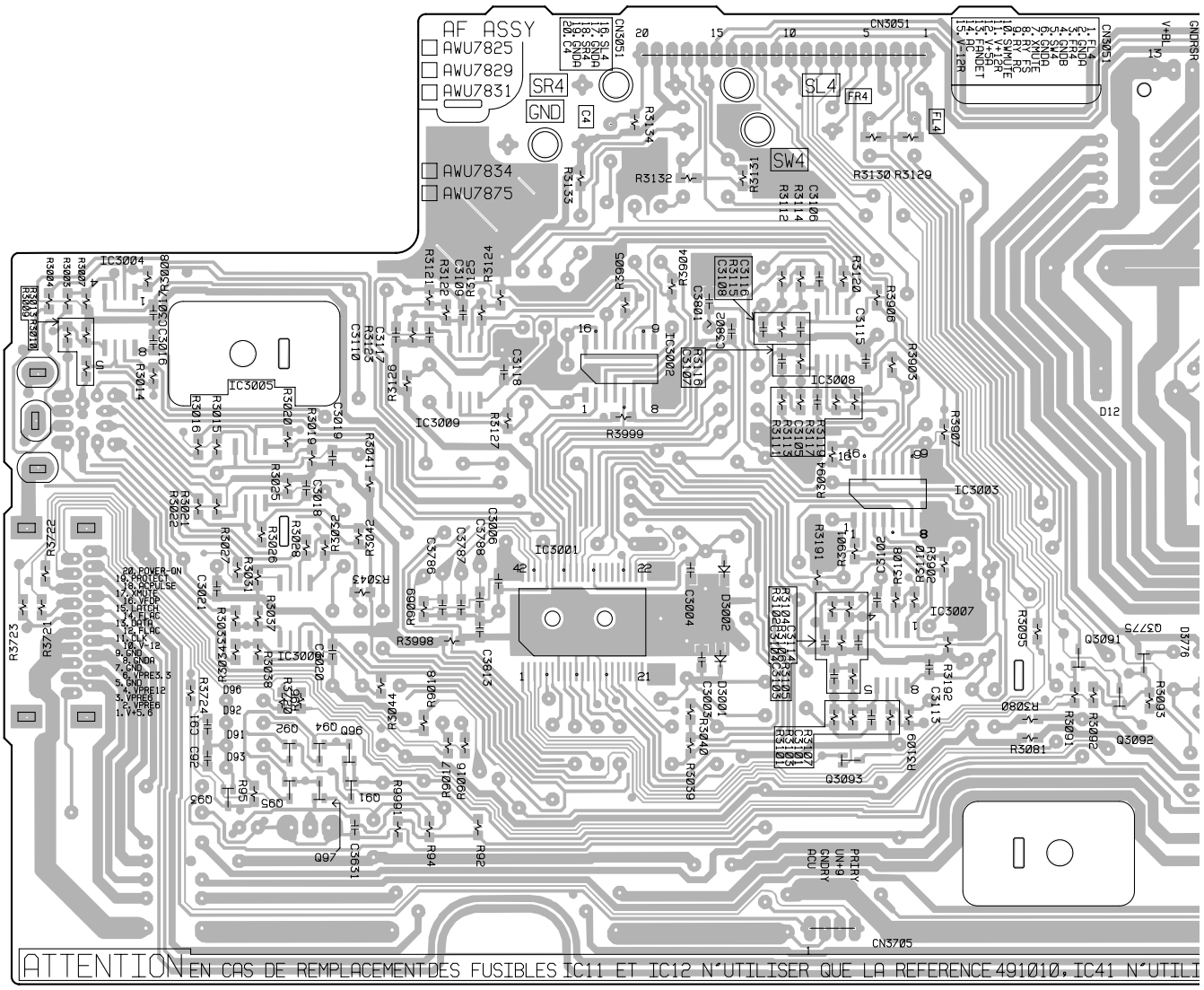


A AF ASSY



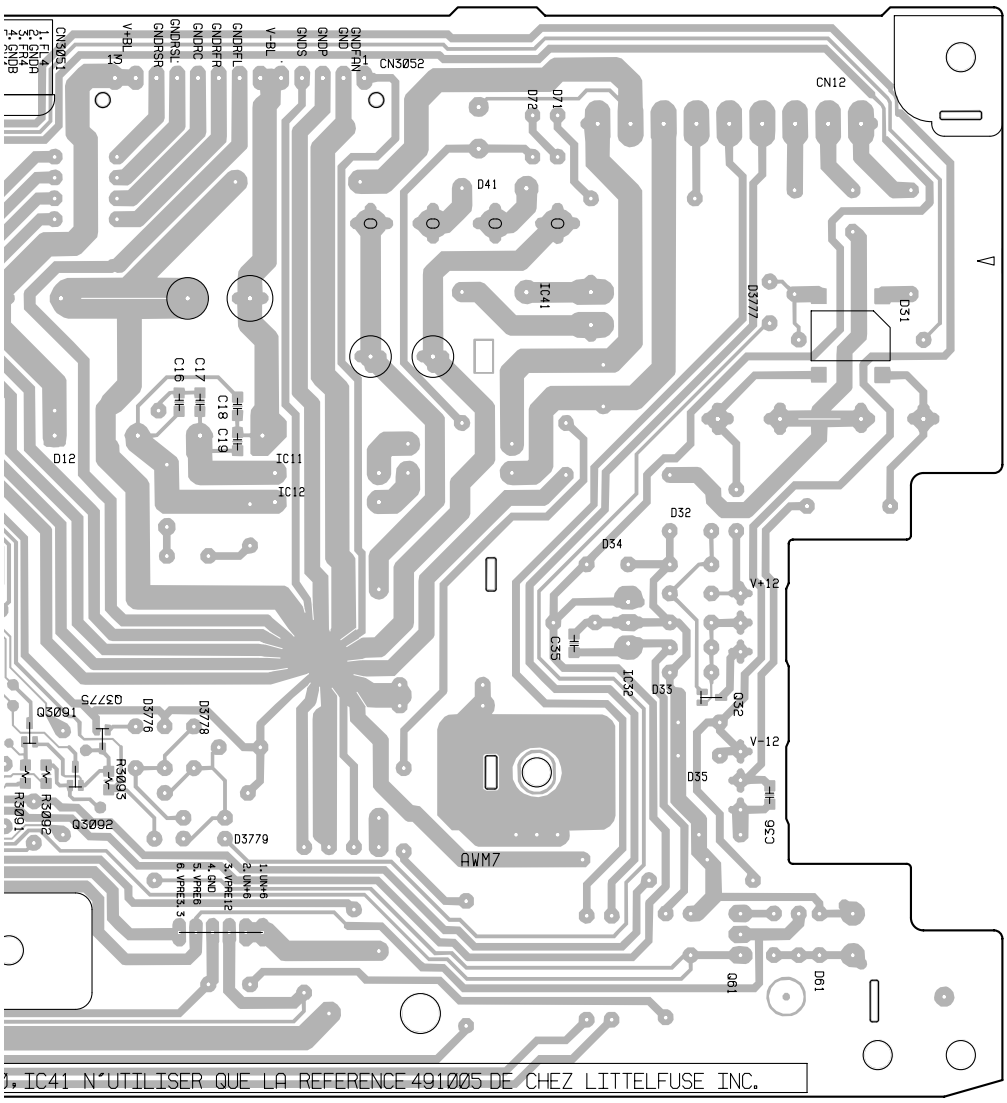

I3302
B CN3301
SIDE A
To
XV-DV77
SIDEL ASSY
CN5081
CN3702
CN3703
CN3704
OPEN SIDE
BOND
V+BL
GND
SW4
SL4
SR4
IC3631
IC3831
CN3705
REPLACE WITH SAME TYPE #491010
D IC12,
IC41 MFD. BY LITTELFUSE INC.
(ANP7408-A)
CN44
To XV-DV77
MOTHER ASSY

A AF ASSY



IC3004	Q93	IC3005 IC300 Q92 Q95	Q94 Q97	Q96 Q91	IC3009	IC3001	IC3002	IC3008 IC3093	IC3003 IC3007	IC3091 IC3092	IC3

SIDE B



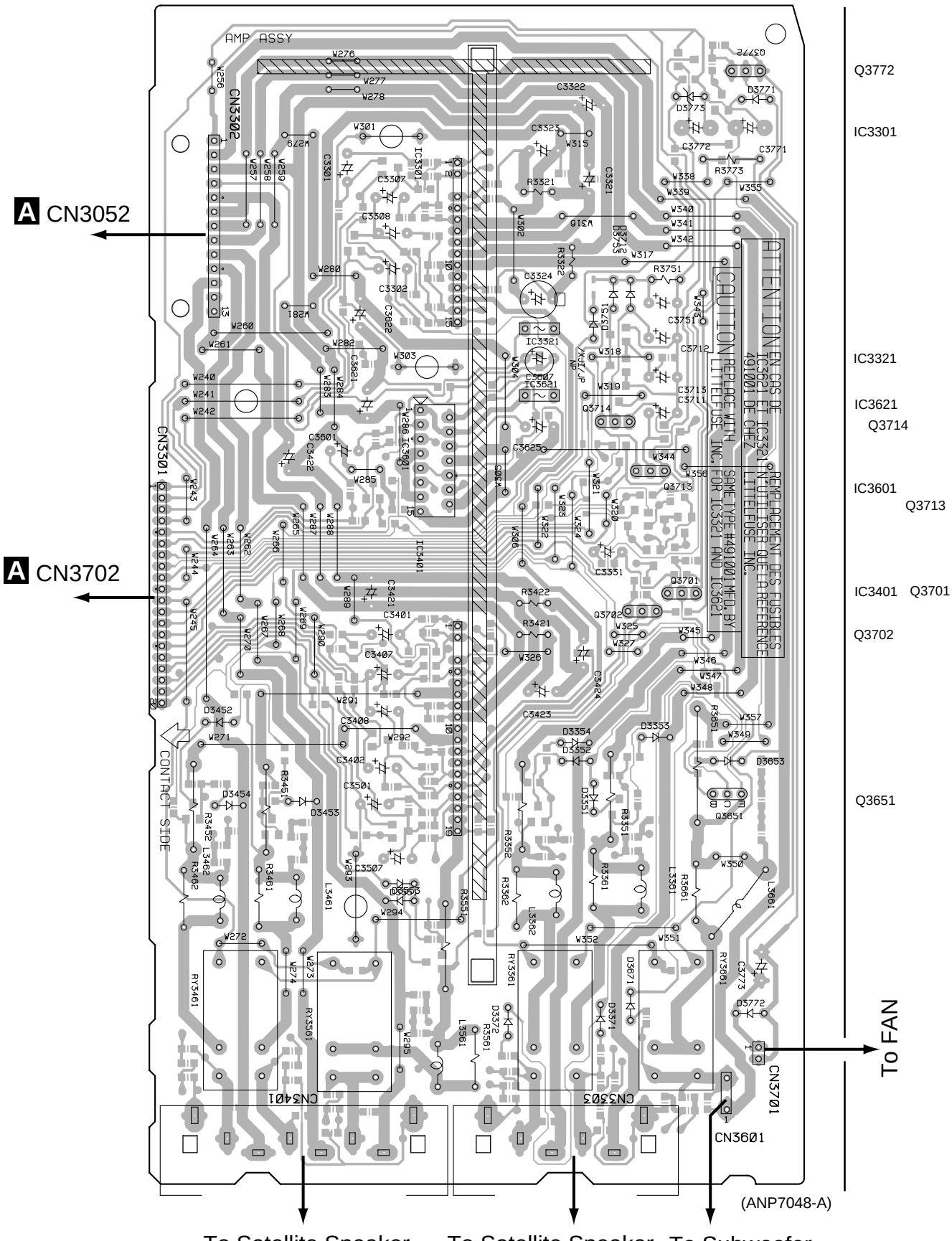
(ANP7408-A)

IC3091 IC3092	IC3775	IC12	IC41	IC32	Q32 Q61

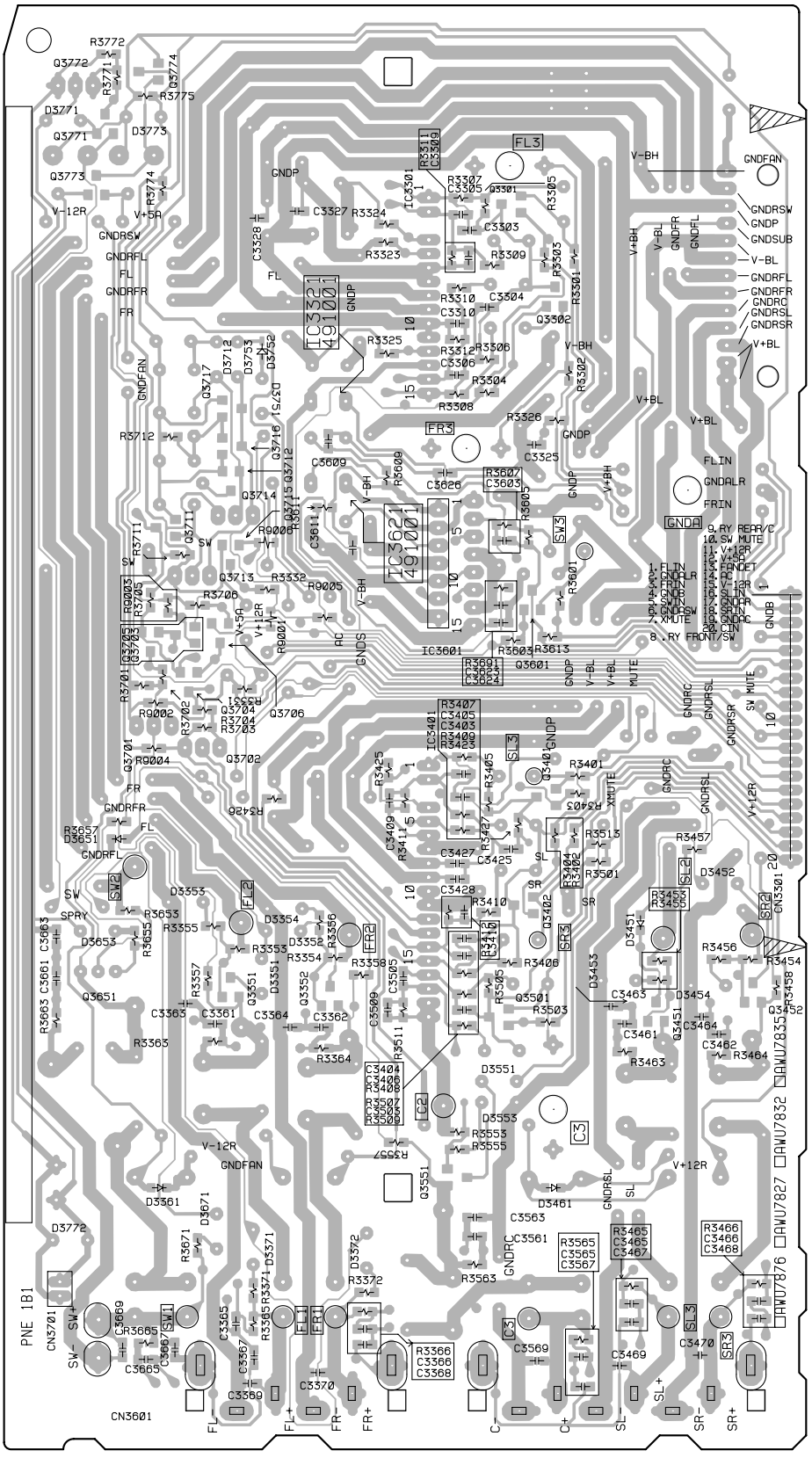
4.2 AMP ASSY

B AMP ASSY

SIDE A



SIDE B



(ANP7048-A)

Q3772 Q3774

Q3771

Q3301

IC3301

Q3302

Q3717

Q3716

Q3712

Q3714

Q3711

Q3713

IC3601

Q3705 Q3703 Q3701

Q3704 Q3706 IC3401

Q3701 Q3702 Q3041

Q3042

Q3651 Q3351 Q3501 Q3352

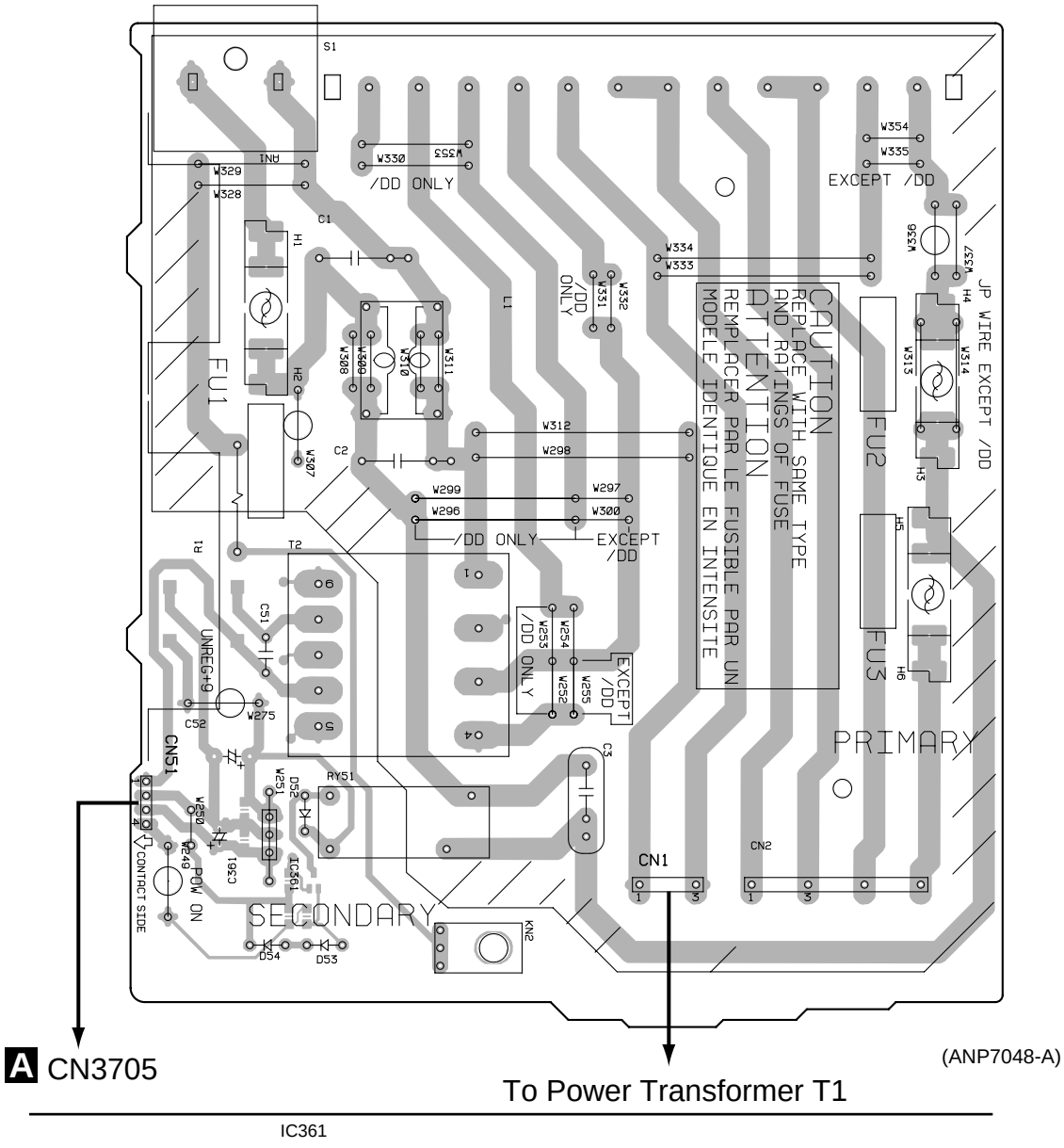
Q3451

Q3551

4.3 PRI, REG and TRADE ASSYS

C PRI ASSY

SIDE A



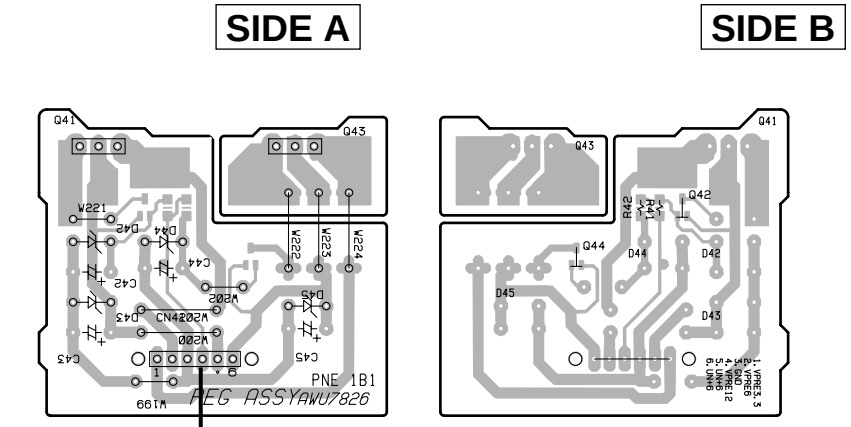
A CN3705

To Power Transformer T1

(ANP7048-A)

IC361

D REG ASSY



E TRADE ASSY

A CN41

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

Mark	No.	Description	Part No.

LIST OF ASSEMBLIES

NSP	DVD AMP ASSY	AWM7625
	├ AF ASSY	AWU7825
	├ AMP ASSY	AWU7827
	├ REG ASSY	AWU7826
	├ PRI ASSY	AWU7824
	└ TRADE ASSY	AWU7828

A AF ASSY

SEMICONDUCTORS

⚠	IC41	AEK7046
⚠	IC31	AEK7050
⚠	IC71	AEK7060
⚠	IC11, IC12	AEK7068
	IC3004-IC3009	BA4558F-HT
	IC3002, IC3003	BU4053BCF
	IC3001	M62446FP
⚠	IC32	NJM7812FA
⚠	IC33	NJM7912FA
⚠	Q31	2SB1375
	Q3091, Q3092, Q32, Q96, Q97	2SC4081
⚠	Q61	2SD1858X
	Q92, Q94, Q95	DTA124EUA
	Q3093, Q3775	DTC143EUA
	Q91, Q93	UN5212
	D3777-D3779	1SS133
⚠	D91, D92	1SS133
	D93, D96	1SS133
⚠	D41	D3SBA20(B)
⚠	D11	D5SBA20(B)
	D32	MTZJ15C
	D33	MTZJ18B/C
	D3776	MTZJ2.7B
	D61	MTZJ5.6B
⚠	D31	S1WB(A)60SD
⚠	D71, D72	S5688G
	D3001, D3002	UDZS6.8B

CAPACITORS

C14, C15	ACH7121
C3786-C3788	CCSRCH101J50
C3005,C3007,C3008,C3015,C3032	CEAT100M50
C3798	CEAT100M50
C34	CEAT101M25
C3012-C3014	CEAT1R0M50
C33	CEAT220M50
C71	CEAT221M63
C31, C32	CEAT222M35
C3010, C3011, C3027-C3031	CEAT2R2M50
C3022-C3026	CEAT3R3M50
C37, C3797, C38, C61, C62	CEAT470M25
C3001, C3002	CEAT471M25
C41	CEAT682M25
C3111, C3112	CFTYA154J50
C3003, C3004	CKSQYF473Z50
C3033	CKSRYB105K6R3
C3103, C3104, C3107, C3108, C3110	CKSRYB223K50
C3101, C3102, C3105, C3106, C3109	CKSRYB822K50
C3006, C3016-C3021, C3113-C3118	CKSRYF103Z50
C35, C36, C3801, C3802	CKSRYF103Z50
C91, C92	CKSRYF224Z16

RESISTORS

R3001, R3002	RD1/2PM101J
R3725	RD1/2PM222J
R3118, R91, R93	RD1/4PU103J
R62	RD1/4PU220J
R3726	RD1/4PU273J
R31, R61	RD1/4PU471J
R3007, R3008, R3013, R3014	RS1/16S1001F
R3019, R3020, R3025, R3026	RS1/16S1001F
R3031, R3032, R3037, R3038	RS1/16S1001F
R3003, R3004, R3009, R3010	RS1/16S2201F
R3015, R3016, R3021, R3022	RS1/16S2201F
R3027, R3028, R3033, R3034	RS1/16S2201F
Other Resistors	RS1/16S□□□J

OTHERS

CN3704	20P SOCKET	AKP7129
CN3703	12P CONNECTOR	AKP7131
CN3052	13P CONNECTOR SOCK.	AKP7155
CN12	2P-VH CONNECTOR	B2P-VH
CN11	9P TOP POST	B9P-VH
J 1001	BOARD IN WIRW	DB020NT0
CN3705	4P PLUG	KM200TA4
CN41	6P PLUG	KM200TA6
CN3702	PCB CONNECTOR	TUC-P20P-B1
KN3001	EARTH METAL FITTING	VNF1084

Mark	No.	Description	Part No.

B AMP ASSY

SEMICONDUCTORS

⚠	IC3321, IC3621		AEK7009
⚠	IC3301		STK402-040
⚠	IC3401		STK402-240
⚠	IC3601		TDA7294V
	Q3701, Q3702		2SC1740S
	Q3651		2SC2240
	Q3351, Q3352, Q3451, Q3452, Q3551		2SC2412K
	Q3705, Q3706, Q3716, Q3717		2SC2412K
	Q3301, Q3302, Q3401, Q3402, Q3501		2SD2114K
	Q3601		2SD2114K
	Q3772		2SD2144S
	Q3713, Q3714		DTA123JS
	Q3771		DTA124EK
	Q3773		DTA124TK
	Q3703, Q3704, Q3715		DTA143EK
	Q3774		DTC124EK
	Q3711, Q3712		DTC143EK
	D3351-D3354, D3371, D3372		1SS133
	D3452-D3454,D3551,D3553,D3653		1SS133
	D3671,D3712,D3751,D3753,D3772		1SS133
	D3361,D3451,D3461,D3651,D3752		1SS355
	D3771		S5688G

COILS AND FILTERS

⚠	L3361,L3362,L3461,L3462,L3561		ATH-059
⚠	L3661		ATH1004

SWITCHES AND RELAYS

	RY3361,RY3461,RY3561,RY3661		ASR7008

CAPACITORS

	C3309,C3310,C3409,C3410,C3509		CCSRCJ3R0C50
	C3307, C3308, C3321, C3322		CEAT100M50
	C3407,C3408,C3421,C3422,C3507		CEAT100M50
	C3601, C3751		CEAT100M50
	C3712, C3713		CEAT101M10
	C3771		CEAT101M25
	C3323, C3324, C3423, C3424		CEAT101M35
	C3621, C3622		CEAT101M50
	C3331, C3607, C3625		CEAT220M50
	C3301,C3302,C3401,C3402,C3501		CEAT2R2M50
	C3772		CEAT2R2M50
	C3711		CEAT470M25
	C3609		CKSRYB102K50
	C3603, C3623, C3624		CKSRYB103K50
	C3305,C3306,C3405,C3406,C3505		CKSRYB221K50
	C3303,C3304,C3403,C3404,C3503		CKSRYB471K50
	C3369,C3370,C3469,C3470,C3569		CKSRYF103Z50
	C3669		CKSRYF103Z50
	C3361-C3368,C3461-C3468,C3561		CKSRYF104Z25
	C3563,C3565,C3567,C3661,C3663		CKSRYF104Z25
	C3665, C3667		CKSRYF104Z25

RESISTORS

	R3361,R3362,R3461,R3462,R3561		RD1/2PM101J
	R3661		RD1/2PM101J
⚠	R3321, R3322, R3421, R3422		RD1/4MUF101J
	R3751		RD1/4PU222J
⚠	R3773		RF1/4PS330J
	R9001, R9006		RS1/10S0R0J
	R3351, R3352, R3451, R3452, R3551		RS2LMFR22J
	R3651		RS3LMFR22J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN3601	2P CONNECTOR	5569-02A1
	CN3401	6P SPEAKER TERMMINAL	AKE7066
	3303	4P SPEAKER TERMMINAL	AKE7067
	CN3302	13P CONNECTOR PLUG	AKM7067
	CN3701	2P PLUG	KM200SA2
	CN3301	PCB CONNECTOR	TUC-P20X-B1

C PRI ASSY

SEMICONDUCTORS

⚠	IC361		NJM78M56FA
	Q51		2SC4081
	D52–D54		1SS133
⚠	D51		S1WB(A)60SD

COILS AND FILTERS

⚠	L1		ATF7018

TRANSFORMERS

⚠	T2		ATT7050

SWITCHES AND RELAYS

⚠	RY51		ASR7018

CAPACITORS

⚠	C1, C2		ACE7029
⚠	C3		ACG7020
	C361		CEAT100M50
	C52		CEAT102M25
	C362		CKSRYB103K50

RESISTORS

	Other Resistors		RS1/16S□□□J

OTHERS

	H1, H2	FUSE CLIP	AKR7001
⚠	CN1	2P CONNECTOR	B2P3S-VH
	CN51	4P SOCKET	KP200TA4L
⚠	AN1	1P AC INLET	XKP3041

D REG ASSY

SEMICONDUCTORS

⚠	Q41, Q43		2SB1375
	Q42, Q44		2SC4081
	D43		MTZJ12B
	D44		MTZJ5.6C
	D45		MTZJ7.5C
	D42		MTZJ9.1B

CAPACITORS

	C42–C45		CEAT220M50

RESISTORS

	R43		RD1/4PU560J
	Other Resistors		RS1/16S□□□J

OTHERS

	42	6P CABLE HOLDER	51048-0600
	J 41	JUMPER WIRE 6P	D20PYY0605E

Mark	No.	Description	Part No.
E	**TRADE ASSY**		
	OTHERS		
	43	6P SOCKET	51048-0600
	CN44	6P CABLE HOLDER	KP200TA6L

6. ADJUSTMENT

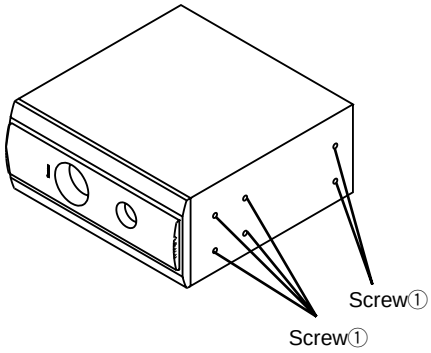
There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 DISASSEMBLY

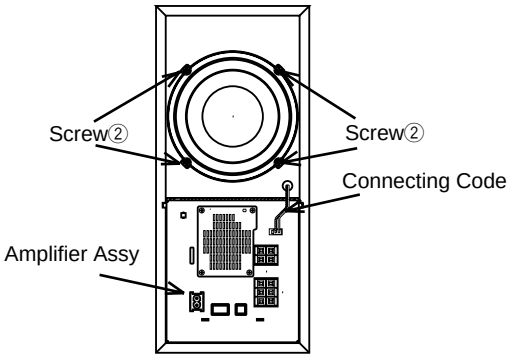
1. Removing the Amplifier Assy

1) The Amplifier Assy is attached to the cabinet by 6 external screws ①. To detach it, pull down the subwoofer toward the left side.
2) Then unfasten those screws ① .
3) Then stand up the speaker again. To detach the Amplifier Assy, first remove the connecting code. Then pull straight the Amplifier Assy toward back and remove it.



2. Removing the Subwoofer

1) The speaker element is attached to the back board by 4 external screws ②.To detach it, unfasten those screws.
2) When attaching it,face its terminal upward.



3. Removing the Cosmetic Baffle

1) The cosmetic baffie is attached to the baffle by press-fitting. To detach it,pry it open by inserting a flat blade screwdriver into lower side.

4. Removing the Cosmetic Duct

1) The cosmetic baffle, those screws are removed when removing the cosmetic duct attached in cosmetic baffle with 8 screws.

8. SPECIFICATIONS

Amplifier Section

Subwoofer 50W (100Hz, 1% T.H.D.,4Ω)
Surround (Reference)
Front,Center,Rear ..... 30W,per channel(1KHz, 1% T.H.D.,8Ω)
Continuous power output (RMS)
Subwoofer 65W (100Hz, 10% T.H.D.,4Ω)
Surround (Reference)
Front,Center,Rear ..... 40W,per channel(1KHz, 10% T.H.D.,8Ω)

Speaker Section

Powered subwoofer
Type ..... BASS reflex floor type,antimagnetic (EIAJ)
Speaker ..... 16cm (6 in.) (cone type)
Nominal impedance 4Ω
Frequency range ..... 31Hz to 300 Hz
Max. input ..... 65W (EIAJ)

Front, Rear, Center speakers (Reference)
Type Sealed ,antimagnetic (EIAJ)
Speaker ..... 8.7cm (3-7/16 in.) (cone type)
Nominal impedance 8Ω
Frequency range ..... 100Hz to 20,000 Hz
Max. input ..... 40W (EIAJ)

Power Supply Section

Power requirements (/MYXJI Model) AC220-230V, 50/60Hz
Power requirements (/NVYXJI Model) AC230V, 50/60Hz

Power consumption (DVD Tuner + Powered subwoofer) 166W

Power consumption in standby mode 1W

Miscellaneous

Powered subwoofer unit
Dimensions ..... 190 (W) × 418 (D) × 420 (H) mm
(7-1/2 (W) × 16-3/4 (D) × 17 (H)in.)
Weight ..... 13.9 kg (30.64 lbs)
Front, Rear speakers (Reference)
Dimensions (S-DV77ST) ..... 112 (W) × 77 (D) × 144 (H) mm
(4-5/16 (W) × 2-15/16 (D) × 6 (H)in.)
Weight (S-DV77ST) ..... 0.77 kg (1.7 lbs)

Center speaker (Reference)
Dimensions (S-DV77ST) ..... 196 (W) × 76 (D) × 105 (H) mm
(8-1/2 (W) × 2-15/16 (D) × 4-5/16 (H)in.)
Weight (S-DV77ST) ..... 0.82 kg (1.8 lbs)

Note : Speciffication and the desine is subject to possible modiffication without notice due to improvement.